REMARKS

The Office Action, dated June 21, 2004, has been reviewed carefully and the application amended in order to place the same in condition for allowance. Reconsideration of the rejection and allowance of the claims are respectfully requested on the basis of the following remarks.

The Invention

The present invention provides for a wrapper for a conical sushi item having a mass of rice and an edible sheet, such as seaweed. To prevent interaction between the rice and the sheet during storage, the sheet is disposed in a removable wrapper. The wrapper includes an outer film and an inner film. Both the outer film and the inner film include two portions, a rectangular top portion and an isosceles triangle bottom portion. In both the inner and outer films, the two portions are joined by an elongated heat seal line located adjacent to the base of the triangle and adjacent to one edge of the rectangular portion. A lap of the rectangular portion overlays a length of the triangular portion. The triangular portion includes a series of incisions extending below the lap. These incisions allow the two portions to be separated by a minimal exertion of force.

It is noted that one disadvantage of the prior art was that the inner film often included two pieces of film. These two pieces could separate prior to the intended removal of the film. One solution was to provide points, or "tacks," of heat sealing between the rectangular portion and the triangular portion. This was only performed on the outer film as the outer film was more prone to separation. However, it was soon discovered that the strength of the tacks had to be precisely controlled as strong tacks prevented the two portions from separating easily. Thus, the present invention provides for an elongated heat seal line, to prevent separation, and the incisions, to allow a controlled separation when the wrapper is being removed.

Status of the Claims

Claims 1-9 stand rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 1-12 of U.S. Patent No. 6,544,569 in view of JP 2000-197456.

Claims 1-9 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 1-12 of copending Application No. 10/353,680 in view of JP 2000-197456.

Claims 1-9 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

Claims 1-2 and 6 stand rejected under 35 U.S.C. § 102(a) as being anticipated by JP 2000-197456.

Claims 4-5 and 8-9 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over JP 2000-197456.

Claims 3 and 7 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over JP 2000-197456 as applied above, and in view of *Suzuki* (Patent No. 4,623,568).

<u>Claims 1-9; Rejected under the judicially created doctrine of obviousness-type</u> <u>double patenting</u>

Claims 1-9 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 1-12 of U.S. Patent No. 6,544,569 in view of JP 2000-197456. Applicants disagree with the Examiner that the present invention is obvious in view of Patent No. 6,544,569 and JP 2000-197456. Both Patent No. 6,544,569 and JP 2000-197456 disclose the prior art method of having the inner film consisting of two separate, unbonded pieces and an outer film having two portions tacked together. Moreover, neither of these references teach or suggest the use of incisions, nor would incisions be required, where the inner film portions are not bonded and the outer film is only tacked together. Moreover, there is nothing in the two references suggesting that a combination would be beneficial. As such, the combination suggested by the

Examiner cannot be the basis for a rejection under the judicially created doctrine of obviousness-type double patenting.

Accordingly, Applicant requests that the Examiner withdraw the rejection set forth in paragraph 2 of the June 21, 2004 Office Action.

Claims 1-9; Provisionally rejected under the judicially created doctrine of obviousness-type double patenting

Claims 1-9 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 1-12 of copending Application No. 10/353,680 in view of JP 2000-197456. Applicants disagree with the Examiner that the present invention is obvious in view of Patent Application No. 10/353,680 and JP 2000-197456. Both Patent Application No. 10/353,680 and JP 2000-197456 disclose the prior art method of having the inner film consisting of two separate, unbonded pieces. Moreover, neither of these references teach or suggest the use of incisions, nor would incisions be required, where the inner film portions are not bonded. Moreover, there is nothing in the two references suggesting that a combination would be beneficial. As such, the combination suggested by the Examiner cannot be the basis for a rejection under the judicially created doctrine of obviousness-type double patenting.

Accordingly, Applicant requests that the Examiner withdraw the rejection set forth in paragraph 3 of the June 21, 2004 Office Action.

Claims 1-9; Rejected under 35 U.S.C. § 112, second paragraph

Claims 1-9 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention. Claims 1 and 6 have been amended to remove the word "its" in order to overcome the rejection under 35 U.S.C. § 112, second paragraph.

Accordingly, Applicants request that the Examiner withdraw the rejection set forth in paragraph 5 of the June 21, 2004 Office Action.

Claims 1-2 and 6; Rejected under 35 U.S.C. § 102(a)

Claims 1-2 and 6 are rejected under 35 U.S.C. § 102(a) as being anticipated by JP 2000-197456. JP 2000-197456 discloses a wrapper for a sushi package wherein the wrapper includes an inner film and an outer film. The films form an envelope in which a sheet of food, such as seaweed, is disposed. The wrapper is further formed into a cone, in which a ball of rice or other food item is disposed. The wrapper is structured to be pulled apart in a manner which allows the food item to remain in the sheet of food. Generally, the wrapper inner film and an outer film each have a rectangular portion and a triangular portion. The triangular portion is shaped to be rolled into the conical shape. The outer film portions are tacked to each other with discrete heat fused points. These points are intended to be easily separable. The inner film is not tacked together. The films are then bonded to each other at the upper and lower perimeters and are not bonded adjacent to the contact line between the rectangular portion and the triangular portion. Thus, when a user pulls upward on the rectangular portion, the rectangular portion separates from the triangular portion and the inner film slides out from under the rice ball. The user may then pull the triangular portion downward and the inner film slides out from under the rice ball, thereby leaving the rice ball in the cone formed by the sheet. Due to the need for the rectangular portion and the triangular portion to be separable, the rectangular portion and the triangular portion cannot be joined by an elongated heat seal.

As amended, independent claim 1 recites, among other things, a wrapper for sushi having an outer film formed by two portions, a rectangular portion and a triangular portion, wherein the two portions are coupled together with an elongated heat sealing line. As the cited reference does not disclose a wrapper for sushi having an outer film formed by two portions, a rectangular portion and a triangular portion, wherein the two portions are coupled together with an elongated heat sealing line, the rejection of claim 1 under 35 U.S.C. § 102(a) should be withdrawn.

Claim 2 depends from claim 1 and relies on its dependency for patentability.

As amended, independent claim 6 recites, among other things, a wrapper for sushi having an outer film formed by two portions, a rectangular portion and a triangular portion, wherein the two portions are coupled together with an elongated

heat sealing line. As the cited reference does not disclose a wrapper for sushi having an outer film formed by two portions, a rectangular portion and a triangular portion, wherein the two portions are coupled together with an elongated heat sealing line, the rejection of claim 6 under 35 U.S.C. § 102(a) should be withdrawn.

Accordingly, Applicants request that the Examiner withdraw the rejection set forth in paragraph 8 of the June 21, 2004 Office Action.

Claims 4-5 and 8-9; Rejected under 35 U.S.C. § 103(a)

Claims 4-5 and 8-9 are rejected under 35 U.S.C. § 103(a) as being unpatentable over JP 2000-197456. JP 2000-197456 is discussed above. The Examiner asserts, without citing any reference and without any support, that despite the fact that JP 2000-197456 indicates that the two portions of the outer film are "spot-fused so that the superimposed part may be peeled off" (see page 8), it would have been obvious to extend the spots to extend over the entire length of the lap. Applicants respectfully disagree.

With respect to claims 4 and 8, which depend from claims 1 and 6 respectively, Applicants note that the spot-fused nature of the prior art used a minimal number of tacked spots because the outer film was intended to separate at the location of the tacks. Moreover, as noted in the present application, "if the seal is excessively strong, the film will not separate." The destructive nature of strong fused spots result in the wrapper failing to separate as needed to properly remove the wrapper and effecting the integrity of the sheet and the food item. The use of a longer seal would not be obvious as a heat seal extending over the entire length of the lap would not be easily separated. For example, the extended heat seals about the outer edges of the rectangular and triangular sections are used to ensure that the inner and outer films cannot be separated. Thus, an extended seal on the wrapper disclosed in JP 2000-197456 would result in an increased chance of disturbing the food and/or the sheet. Accordingly, the invention as recited in claims 4 and 8 is not obvious under 35 U.S.C. § 103(a) in view of JP 2000-197456.

Claims 4 and 8, which depend from claims 1 and 6, respectively, each recite an incision. The incisions are structured to allow the two portions to be separated. As noted above, the prior art used a minimal number of tacked spots because the

outer film was intended to separate at the location of the tacks. As the prior art outer film separated at the tacks, there would be no need for an additional separation structure, such as an incision. Accordingly, the invention as recited in claims 5 and 9 is not obvious under 35 U.S.C. § 103(a) in view of JP 2000-197456.

Therefore, Applicants request that the Examiner withdraw the rejection set forth in paragraph 10 of the June 21, 2004 Office Action.

Claims 3 and 7; Rejected under 35 U.S.C. § 103(a)

Claims 3 and 7 are rejected under 35 U.S.C. § 103(a) as being unpatentable over JP 2000-197456 as applied above, and in view of Suzuki (Patent No. 4,623,568). The deficiencies of JP 2000-197456 as a reference are discussed above. U.S. Patent No. 4,623,568 discloses a wrapper made from a three pieces of film; a single outer film and two inner films. The two inner films are bonded at their exposed edges to the outer film. The single outer film is weakened by an incision. Thus, when a user pulls on the wrapper, the outer film tears and the inner films slide apart. Thus, as the purpose of JP 2000-197456 tacks is to bond two portions of an outer film together and provide a separation point, whereas U.S. Patent No. 4,623,568 discloses a single piece of film having a tear line created by an incision, one skilled in the art would not look to combine these two references. That is, as noted above, because JP 2000-197456 includes a separation device, there is no need to include a second separation device, i.e. an incision Moreover, the Examiner has not shown where either of these references suggest such a combination. As stated in, In re Geiger, 815 F.2d 686, 2 U.S.P.Q.2d 1276 (Fed. Cir. 1987), "obviousness cannot be established by combining teachings of the prior art to produce the claimed invention, absent some teaching, suggestion, or incentive supporting combination." (emphasis added)(attached as appendix 1). Put another way, "the mere fact that disclosures or teachings of the prior art can be retrospectively combined for the purpose of evaluating obviousness/nonobviousness issue does not make the combination set forth in the invention obvious, unless the art also suggested the desirability of the combination" Rite-Hite Corp. v Kelly Co., 629 F.Supp. 1042, 231 U.S.P.Q. 161, (attached as appendix 2) aff'd 819 F.2d 1120, 2 U.S.P.Q.2d 1915 (E.D.Wis. 1986)(emphasis added). Similarly, the court

in, *In re Vaeck*, 947 F.2d 488, 20 U.S.P.Q.2d 1438 (Fed. Cir. 1991), stated that "both the suggestion [to make the claimed apparatus] and the reasonable expectation of success must be found in the prior art, not in the applicant's disclosure." (attached as appendix 3). Here, there is no suggestion that the cited references should be combined.

Accordingly, Applicants request that the Examiner withdraw the rejection set forth in paragraph 11 of the June 21, 2004 Office Action.

CONCLUSION

In view of the amendments and remarks above, Applicants respectfully submit that the application is now in proper form for issuance of a Notice of Allowance and such action is requested at an early date.

Respectfully submitted,

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412/566-1253

firm agency determination, if at all, on ground that agency gave for decision). On tioners were temporary, and if so (2) remand, the Board must determine (1) whether the positions sought by the petiwhether the petitioners were nonetheless entitled to compete for these positions since they involved functions that were transfer red to the new agency.

Anderson, and Watson to the two positions involved. Only two of these petitioners If the Board should conclude that these positions were assigned, the Board then could have been entitled to the two posi-Former CSA Employees, 762 F.2d at 984. sitions in place of the persons to whom the will have to determine the relative priority of entitlement among petitioners Acerno, three petitioners were entitled to those potions all three of them are seeking.

CONCLUSION

are remanded to the Board to determine (1) employees seek were temporary and, if they were, (2) whether the petitioners nevertheless are entitled to these positions ration of Mr. Pizzi, Ms. Hudgins, and Ms. Pilgrim are affirmed. The Board decisions sustaining the separations of Mr. Acerno, versed, and the cases of those petitioners because they are "transition" positions. Ms. Anderson, and Ms. Watson are rewhether the two positions these former The Board decisions sustaining the sepa-

AFFIRMED IN PART, REVERSED IN PART, AND REMANDED



This opinion Issued as an unpublished opinion on December 11, 1986. On request of counsel

In re Gary E. GEIGER.

Appeal No. 86-1103.

United States Court of Appeals, Federal Circuit.

April 1, 1987.

Applicant appealed decision of Patent aminer's rejection of claims, on basis of obviousness, relating to method of inhibiting scale formation on and corrosion of The Court of Appeals, Archer, Circuit Judge, held that prima facie case of obviand Trademark Office Board of Patent Appeals and Interferences, which affirmed exmetallic parts in cooling water systems. ousness was not established.

Reversed.

Pauline Newman, Circuit Judge, concurred and filed opinion.

1. Patents \$\mathbf{P}\$113(6)

Standard of review for conclusion of obviousness is correctness or error as a matter of law. 35 U.S.C.A. § 103.

2. Patents -16.5

combining teachings of prior art to produce Obviousness cannot be established by suggestion, or incentive supporting combiclaimed invention, absent some teaching, nation. 35 U.S.C.A. § 103.

3. Patents -16.25

have made it obvious to one skilled in art to try various combinations of known scale but were insufficient to establish obviousenced in instant patent application may and corrosion prevention agents disclosed, not established with respect to method of by use of compositions containing sulfonated styrene/maleic anhydride copolymer, phosphorus acid compound or water soluble salt thereof; disclosures in prior art refer-Prima facie case of obviousness was inhibiting scale formation on and corrosion of metallic parts in cooling water systems water soluble zinc compound, and organo-

for appellant, it is now being reissued as a published opinion.

IN RE GEIGER

Hwa, et al. (Hwa).¹ prior art supporting combination which reinstant method. 35 U.S.C.A. sulted in

fice of the Sol., Arlington, Va., argued, for seph F. Nakamura, Sol. and Fred E. McKel-Bruce E. Peacock, Betz Laboratories, Robert D. Edmonds, Associate Sol., Ofappellee. With him on the brief, were Jonc., Trevose, Pa., argued, for appellant. ey, Deputy Sol.

SKELTON, Senior Circuit Judge, and Before NEWMAN, Circuit Judge, ARCHER, Circuit Judge.

ARCHER, Circuit Judge.

This is an appeal from a decision of the (PTO) Board of Patent Appeals and Interlant's patent application, Serial Number 373,903 ('903), under 35 U.S.C. § 103. We Jnited States Patent and Trademark Office ferences (board), Appeal No. 606-09, afmaining claims, 43-63 and 65-67, in appelfirming the examiner's rejection of all rereverse.

OPINION

Background

(3) an organo-phosphorus acid compound or compositions containing (1) a sulfonated styrene/maleic anhydride (SSMA) copolymer, (2) a water soluble zinc compound, and The '903 application, filed on May 3, .982, is directed to a method of inhibiting lic parts in cooling water systems by use of scale formation on and corrosion of metal water soluble salt thereof.

tions under 35 U.S.C. § 103, finding that the board affirmed the examiner's rejecthe claimed subject matter would have been obvious in view of various combinamarily upon U.S. Patent No. 4,209,398 istions of references, but with reliance pri-733 issued to Snyder, et al. (Snyder '733) In its decision dated February 7, 1986, sued to Ii, et al. (Ii), U.S. Patent No. 4,374,

1. Hwa was cited only with respect to dependent

ness, in absence of some suggestion in and U.S. Patent No. 4,255,259 issued to Cite as 815 F.2d 686 (Fed. Cir. 1987)

acids and water soluble salts thereof, phosof, organic phosphoric acid esters and wametal salts. Although the Ii polymeric the specific copolymer, SSMA, required in The Ii patent discloses use in cooling meric component in combination with one or more compounds selected from the group consisting of inorganic phosphoric phonic acids and water soluble salts thereter soluble salts thereof, and polyvalent component may contain maleic acid and styrene monomers, there is no disclosure of water systems of scale and corrosion prevention compositions comprised of a poly applicant's claims.

to scale deposit formation and that use of The Snyder '733 patent discloses a methprone to scale formation by the addition of a composition comprised of an acrylic acid/lower alkyl/hydroxy acrylate copolymmay be SSMA or a styrene/maleic anhydride (SMA) copolymer. The Snyder '73.3 systems share a common problem in regard SMA to prevent scale in boiler water sysod for treating cooling water systems er and another polymeric component, which patent notes that boiler and cooling water tems is known.

for treating boiler water systems that are The Hwa patent is directed to a method prone to scale formation by addition of a composition comprised of SSMA and an organo-phosphorus acid compound

board further held that data appearing in no suggestion to use SSMA, the specific neld that it would have been prima facie bination for their known functions and to The remaining references, cited with respect to certain dependent claims, contain copolymer recited in the appealed claims. Based upon the prior art and the fact that each of the three components of the composition used in the claimed method is conventionally employed in the art for treating cooling water systems, the board obvious, within the meaning of 35 U.S.C. § 103, to employ these components in com-

claims 47 and 49.

appellant's specification, and supplemented by a declaration submitted pursuant to 37 dence of nonobviousness to rebut the prima C.F.R. § 1.132, provided insufficient evifacie case.

prima facie case of obviousness was es-Whether the board erred in finding that tablished.

Assuming that a prima facie case of jective evidence with regard to unexpected obviousness was established, whether the regults was insufficient to rebut that prima board erred in finding that appellant's obfacie case.

Analysis

of law. In re Caveney, 761 F.2d 671, 674, 226 USPQ 1, 3 (Fed.Cir.1985), In re De-Blauwe, 736 F.2d 699, 703, 222 USPQ 191, 230 USPQ 416, 419 (Fed.Cir.1986). For a conclusion of obviousness, the standard of [1] Obviousness is a question of law based upon the factual inquiries mandated in Graham v. John Deere Co., 383 U.S. 1, 86 S.Ct. 684, 15 L.Ed.2d 545, 148 USPQ 459 (1966). Bausch & Lomb, Inc. v. Barnesreview is correctness or error as a matter Hind/Hydrocurve, Inc., 796 F.2d 443, 447 195 (Fed.Cir.1984).

was erroneous. Appellant argues that the struction or, at best, established that it prevention agents, including the combina-PTO's position represented hindsight reconwould have been "obvious to try" various combinations of known scale and corrosion Appellant contends that the PTO failed ness and, consequently, that the board's affirmance of the examiner's rejections to establish a prima facie case of obvioustion recited in the appealed claims. [2,3] We agree with appellant that the PTO has failed to establish a prima facie the prior art to produce the claimed case of obviousness. Obviousness cannot be established by combining the teachings nvention, absent some teaching, suggestion or incentive supporting the combination. ACS Hospital Systems, Inc. v. Montefiore Hospital, 732 F.2d 1572, 1577, 221

USPQ 929, 933 (Fed.Cir.1984). We are convinced that the latter are not present here.

characteristics may significantly differ from those in Hwa's boiler water system. Hwa also provides no suggestion that SSMA could prevent precipitation of the zinc (II) ion in alkaline cooling water in the and organo-phosphorus acid compounds, or ment of a cooling water system, where the manner ascribed to the polymeric compolymers, may be used in combination with respect to claims 47 and 49, Hwa does disclose the specifically-recited organohowever, no suggestion to add a zinc compound to its disclosed combination of SSMA no-phosphorus acid compound in the treat-Ii does not suggest use of SSMA as its li notes that it is difficult to maintain a predetermined concentration of polyvalent alkaline cooling water, but states that its claimed polymeric component prevents the "polyvalent metals from becoming insoluthough Snyder '733 discloses use of SSMA, it is for the purpose of showing that it, or yet another polymeric component, an acrylphosphorus acid compound. It provides, to use SSMA in combination with an orgaclaimed polymeric component and does not rus acid compound or of a zinc compound. metal ions, such as the zinc (II) ion, in one of three other specifically recited copoic acid/lower alkyl/hydroxy acrylate coporequire the presence of an organo-phospholymer, to prevent scale formation. ble compounds and precipitating....' nent of Ii.

U.S.C. § 103. In re Goodwin, 576 F.2d 375, 377, 198 USPQ 1, 3 (CCPA 1978); In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977); In re Tomlinson, 363 F.2d try various combinations of these known However, this is not the standard of 35 At best, in view of these disclosures, one skilled in the art might find it obvious to scale and corrosion prevention agents. 928, 150 USPQ 623 (CCPA 1966)

ure to establish a prima facie case of obviousness, we need not reach the issue of the sufficiency of the showing of unex-Because we reverse on the basis of fail-

14.466年1666年17.18

REVERSED

Cite as \$13 F.2d 686 (Fed. Cir. 1987)

PAULINE NEWMAN, Circuit Judge,

trols the evidentiary procedures and burclaimed invention would have been obvious in terms of 35 U.S.C. § 103. I write sepaer a prima facie case of obviousness has been made is a critical decision that con-'I agree in the court's result, but respectfully do not share the view that the PTO did not present a prima facie case that the rately because the determination of whethdens before the PTO.

other polymers to control scale in cooling in boilers, but the Ii reference states that it was known to use zinc ions alone or in combination with organo-phophorus acids or salts to inhibit corrosion in cooling wabeing (1) zinc ions, (2) a copolymer of sulfoor salt. A three-part system is described in differs from applicant's system in that the There is no teaching of SSMA in the Ii reference. However, the Snyder '733 reference teaches SSMA in combination with water systems. The use of SSMA in coop-Hwa does not use zinc ions, and it is known that zinc ions produce undesirable results The claims are directed to a three-component system to control scale and corrosion in cooling water systems, the components nated styrene and maleic anhydride (SSMA), and (3) an organo-phosphorus acid the Ii reference for the same purpose, but copolymer component (2) is different. eration with phosphonate is known to reduce scale and sludge in boilers (Hwa).

1980); Minnesota Mining & Manufacturing Co. v. Ansul Co., 213 USPQ 1024, 1033-84 (E.D.Wis.1981). The Board so held. component of Ii with the known scale inhirus compound and zinc ions, both known corrosion inhibitors, to SSMA to achieve F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA Thus each of Geiger's three components has been described, separately or in partial combination, for use in cooling water systems. In my view, it would have been prima facie obvious to replace the polymer bitor SSMA, or to add an organophosphoboth scale and corrosion resistance in cooling water systems. In re Kerkhoven, 626

and that the superiority was not obvious in view of the cited references. In support of this argument the applicant relied on exper-The applicant, in rebuttal of the PTO's ponent system exhibits superior properties, prima facie case, argued that his three-com imental data in the specification. the scale-preventing polymers of the prior art. cause the applicant did not include data showing the properties of SSMA alone, stating that "the superior performance of corrosion/scale control capability of various combinations of components, including data comparing the applicant's three-part system containing SSMA with other threepart systems containing other preferred puted. The Board nevertheless held that the prima facie case was not rebutted besuch compositions may be due to the supe-These data showed significant superiority of applicant's system; this was not disriority of SSMA vis-a-vis the other scale The specification contains data on preventing copolymers."

strated that those systems did not provide comparative showing "must be sufficient to permit a conclusion respecting the relahibition achieved with his three-part system in comparison with systems containing the known corrosion inhibitors zinc ion and orthe improvement in corrosion and scale con-He also demonstrated that neither polyma-I agree with the Board to the extent that it would have been of scientific interest to include such data. However, as a matter of law I believe that the applicant's showcomplied with the requirement that the tive effectiveness of applicant's claimed compounds and the compounds of the clos-316, 203 USPQ 245, 256 (CCPA 1979), and must "provide an adequate basis to support re Johnson, 747 F.2d 1456, 1461, 223 USPQ demonstrated the exceptional corrosion inganophosphorus compounds. He also compared his combination with systems containing other known polymeric scale inhibitors such as those taught by Ii, and demonest prior art," In re Payne, 606 F.2d 303 a legal conclusion of unobviousness." ing was reasonable and sufficient. 1260, 1264 (Fed.Cir.1984).

leic anhydride nor sulfonated polystyrene had the same effect on corrosion resistance as did the SSMA copolymer.

Applicant compared his system with the most relevant prior art. It is not required that the claimed invention be compared with subject matter that does not exist in the prior art. The applicant is not required to create prior art, nor to prove that his invention would have been obvious if the prior art were different than it actually The Board also upheld the examiner's additional rejection that it would have been obvious to add zinc ion to the two-compohe Hwa system is for the reduction of nent SSMA/phosphonate system of Hwa. scale and sludge at the high temperatures that zinc ion is not usable at high temperatures. Applicant provided data showing tive in a cooling system. The Board did not contradict this position on its scientific of steam boilers, and it was uncontroverted that the Hwa system is relatively ineffec-

The applicant compared SSMA/phosphonate (Hwa) alone, SSMA/zinc, and phosphonate/zinc, with his three-component

obviousness. See In re De Blauwe, 736 F.2d 699, 705, 222 USPQ 191, 196 (Fed.Cir. system, and achieved results that the ance." These results are sufficient in Board held showed "superior performthemselves to rebut a prima facie case of

Turning to the rejection on the breadth of the claim language, the limitations in the rate with the disclosure. Although I do not agree with the applicant that it is incumclaims appear to be reasonably commensubent on the Commissioner to offer "technical evidence", applicant's specific examples are illustrative of the limitations described selves further limitations. In re Johnson, 558 F.2d 1008, 1017, 194 USPQ 187, 195 in the specification, and are not in them-(CCPA 1977), In re Goffe, 542 F.2d 564, 567, 191 USPQ 429, 431 (CCPA 1976).



DECISIONS WITHOUT PUBLISHED OPINIONS

UNITED STATES COURT OF APPEALS

First Circuit

DECISIONS WITHOUT PUBLISHED OPINIONS

Appeal from and Citation (If reported) D. Mass.		ND D.N.H.	D.P.R.	D.Me.	D.Me.	D.Me.	D.R.I.	D.P.R., 637 F.Supp. 426	D.Mass.	D.N.H.	I.N.S. AND ED	D.P.R., 649	F.Supp. 1083	D.M.C.	D.N.H.	D.R.I.		D.Mass., 619 F.Supp. 1073	D.Mass.	D.Mc.	D.P.R.	D.Mass., 629 F.Supp. 540		D.P.R.	D.Mass.	D.P.R., 631 F.Supp. 1023
Disposition DENIED	VACATED AND REMANDED	DISMISSED AND REMANDED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	AFTIKMED	AFFIRMED		GRANTED: VACATED REMANDE	DISMISSED	AFFIDAGE	AFFIRMED	DENIED	Affirmed		DISMISSED	AFFIRMED	DENIED; DENIED; AFFIRMED	Ω	AFFIRMED .		AFFIRMED		AFFIRMED
Date 1/5/87	1/1/87	1/1/87	1/8/87	1/8/87	1/8/87	1/8/87	1/9/87	1/20/8/	1/22/87	1/23/87	1/29/87	1/29/87	10,0,0	10/5/7	2/4/87	2/10/87		2/12/87	2/13/87	2/18/87	2/25/87	3/4/87		3/4/87	3/6/87	3/10/87
Docket Title Nells Real Estate, Inc., In re86-2145	Lopez Cruzado v. Secretary of Health and Human Services86-1357	White v. Town of Gilford86-1844	Filardi v. Zamora86-1471	U.S. v. Baronow86-1779	U.S. v. Myatt86-1780	U.S. v. Bellino86-1781	U.S. v. Campos	rueno kico80-1533	Correra v. Anderson86-1714	U.S. v. Landau86-1800	Khan v. I.N.S86-1518	International Ladies' Garment Workers' Union v. Bali Co 86-2065	0311 20	railou, in te	Woloohojian Realty Corp. v.	Delvicario	Sheet Metal Workers Intern.	Ass'n, Local Union 1786-1579	Cavanaugh v, U.S86-1845	Robbins v. City of Auburn, Mc86-1830	Font, In re87-1001	Collins v. Ex-Cell-O Corp. Co86-1315	Cruz v. Secretary of Health and	Human Services86-1879	Levasseur, In re87-1138	Charles v. West Indies Transport 86-1427

of sixty (60) days. Any employee seeking a ployees are customarily posted for a period copy of this Order shall be provided with Relations Act, and the policy of defendant be posted conspicuously in Defendant's ing for each employee attending. The genall employees that racial harassment and discrimination violates Title VII of the Civil Rights Act of 1964, the Florida Human itself. Moreover, a copy of this order shall workplace in locations where notices to emhuman resource development training notify this Court of compliance by filing certificate of completion, signed by the individual or organization providing such traineral manager shall raise affirmatively the subject of racial harassment and discrimination with all of his employees and inform tend equal employment opportunity related classes as soon as practicable and shall

crimination, including warnings and appropriate discipline directed at the offending party. Further, defendant shall seek to generally develop other means of preventing harassment in its work place. See be required by this grievance procedure to tigate and correct any harassment or disto the general manager immediately and confidentially. The general manager shall promptly take all necessary steps to invesharassment is eradicated. This grievance with counsel for plaintiff and provided to all employees. It shall establish a system grievance procedure in accordance with its to swiftly and effectively assure that racial procedure shall be written in consultation whereby harassed employees may complain Further, the defendant shall institute a own policy manual which shall be designed Bundy, at 947.

this injunction, upon proper motion, to assure that no discrimination occurs in the The Court retains jurisdiction to monitor

costs of this action and to reasonable attorto award reasonable attorneys' fees and neys' fees. The Court retains jurisdiction [14] The plaintiff shall be entitled to all

ing Dock Equipment Co., Inc., McCormick Equipment Company, Inc., Metro Stokes Equipment Company, Inc., Timbers & Associates, Inc., Todd Equipment Corporation, U.S. Materials Handling Corp., John L & Associates, Inc., and Stordox Equipment Co., Plaintiffs, King Industrial Equipment, Inc., Load-Dock Specialists, Inc., Mid-Atlantic Handling Systems, Inc., Niehaus Industrial Sales, Inc., Northway Material Handling Co., Inc., Rice Equipment Co., Dock Specialists, Inc., Allied Equipment Corp., Anderson Material Hanment. Co., Keller Equipment Co., Inc., dling Co., Applied Handling, Inc., C & L Equipment Corporation, W.E. Carlson Corporation, R.B. Curlin, Inc., Equipment Systems, Inc., Great Northern Industrial Prod., Inc., HOJ Engineering & Sales Co., Inc., Indy Equipment Company, Inc., Johnson Equip-CORPORATION, RITE-HITE

KELLEY COMPANY, INC., Defendant. Civ. A. No. 83-C-434.

United States District Court, E.D. Wisconsin.

March 5, 1986.

injunction pending appeal would expire for patent, involving restraining device used to hold truck in place while being was valid and infringed, but (2) stay of within 30 days of filing date of decision and order unless notice of appeal was filed Chief Judge, held that: (1) asserted claims loaded or unloaded from a loading dock, Action was brought for patent inringement. The District Court, Reynolds, within that period.

Order in accordance with opinion. See also, 99 F.R.D. 332.

1. Patents @16.1

Failure to consider claimed invention "as a whole" in determining obviousness is an error of law. 85 U.S.C.A. § 103.

2. Patents @16.5

Factors to be considered in determining level of "ordinary skill in the art," when considering obviousness of an invenof ordinary skill, types of problems encounproblems, rapidity with which innovations factors may predominate or be given more tered in the art, prior art solution to those sidered in every case, and one or more tion, may include educational level of one are made, and sophistication of the technology; not all of such factors need be con-

3. Patents @16,5

weight in a particular case. 35 U.S.C.A.

ness/nonobviousness issue does not make beneficial results, or advantage to be de-35 the combination set forth in the invention sirability of the combination, inventor's Mere fact that disclosures or teachings prior art can be retrospectively combined for purposes of evaluating obviousobvious, unless the art also suggested derived from combining the teachings. U.S.C.A. § 103.

4. Patents \$\inf\$36.1(3, 4; 5), 36.2(1)

and failed to meet the need which the inpatented invention met with substantial and whether the accused infringer recog-Objective evidence of nonobviousness of an invention includes whether patented invention fulfills long-felt need in industry to which it applied, whether others tried vention ultimately satisfied, whether the success upon its introduction to the market, nized that the invention was truly meritorious. 35 U.S.C.A. § 103.

5. Patents \$36.1(5)

alleged infringer thinks of the patent in. In determining nonobviousness of patsuit and is persuasive of what the rest of ented invention, imitation of invention by alleged infringer is strong evidence of what the world ought to think. 35 U.S.C.A.

6. Patents @72(1)

To assert that a patent claim is anticipated under 35 U.S.C.A. § 102, a party must demonstrate identity of invention.

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7. Patents \$314(5)

is "anticipated" under 35 U.S.C.A. § 102 is Determination that a claimed invention a factual determination.

8. Patents \$\infty\$72(1)

previously known or embodied in single claim was anticipated must show that each or implicitly described under appropriate tion was previously known or embodied in single prior art device or practice. 35 U.S. Party which seeks finding that patent and every element of patent claim is found. as arranged in the claim, either expressly principles of inherency, in single prior art reference, or that claimed invention was prior art reference, or that claimed inven-C.A. § 102.

9. Patents \$312(1)

fringement by a preponderance of the evi-Burden of patent owner in proving indence extends to infringement under the doctrine of equivalents as well as to literal infringement. 35 U.S.C.A. § 271(a).

10. Patents ⇔226

es at least two questions: what is patented, Issue of infringement of a patent raisand has what is patented been made, used, or sold by another. 35 U.S.C.A. § 271(a).

11. Patents @226.6

In patent infringement action, patent claims measure invention and define boundaries of patent protection. 35 U.S.C.A. § 271(a).

12. Patents \$\sim226.6

If allegedly infringing product falls litof patent is made out, and that is the end erally within patent claim when words are given their proper meaning, infringement of the inquiry. 35 U.S.C.A. §§ 112, 271(a).

13. Patents \$226.6

Question of patent infringement is resolved by comparing accused device with claims of the patent, not with the structure described in the patent or the patentee's commercial device. · 35 U.S.C.A. §§ 112,

14. Patents ==167(1)

in light of the specification, and both are to be read with a view to ascertaining the Claims of a patent are to be construed invention. 35 U.S.C.A. § 112.

15. Patents @165(1)

Each patent claim must be considered as defining a separate invention.

16. Patents \$165(3)

performing the stated function and also all combinations that utilize any structure which is the equivalent of that described structure insofar as it performs the stated tions which utilize as the stated means the structure described in the specification for Patentee's claim covers all combinafunction. 35 U.S.C.A. § 112.

17. Patents @165(1)

sidered: language of claim, patent specification, prosecution history of patent, other claims in patent, and expert testimony; once such factors are weighed, scope of the 35 In construing a "means plus function" claim, a number of factors may be con-"means" claim may be determined. U.S.C.A. § 112.

18. Patents \$\infty\$314(5)

Issue as to whether a device is an equivalent of the described embodiment of the patent claim in issue is a question of fact. 35 U.S.C.A. § 112.

19. Patents @234, 239, 240

fringement by mere fact that its invention ter claimed by patent owner or performs additional functions or adds features or is is more or less efficient than subject mat-Alleged infringer cannot escape inan improvement: 35 U.S.C.A. § 112.

20. Patents \$226.6

Narrow patent claim limitations cannot read into broader claims to avoid infringement. 35 U.S.C.A. § 112.

21. Patents \$ 165(2)

Claims of a patent are the measure of the protected invention. 35 U.S.C.A. § 112.

22. Patents @ 237

is designed to protect a patentee from an infringer who appropriates the invention and breadth to application of patent claim language to prevent infringer from perpetrating a fraud on the patent; the doctrine even if the infringer avoids the literal language of the claim. 35 U.S.C.A. § 112. "Doctrine of equivalents" adds latitude

for other judicial constructions and definitions. See publication Words and Phrases

23. Patents @172

Range of equivalents to which a patent claim is entitled is on a sliding scale depending on the nature of the invention. 35 U.S.C.A. § 112.

24. Patents 0-173

identical means and mode of operation strued liberally and are not to be limited to pioneer type, patent claims are to be conshown in the patent. 35 U.S.C.A. § 112. nificant commercial success or is of the When patented invention has had sig-

25. Patents @173, 174

Broad protection is given not only to so-called pioneer patents, but patents that make substantial contribution to existing art and patents that consist of combination of old ingredients that produce new and useful results. 35 U.S.C.A. § 112.

26. Patents -172

Claims of a patent are entitled to a range of equivalents commensurate with the scope of the invention. 35 U.S.C.A. \$ 112.

27. Patents \$237

to escape appropriate range of equivalents ponent that may be more sophisticated than that disclosed in specific embodiment of patent does not allow alleged infringer and thereby avoid infringement of the Mere use by alleged infringer of comclaimed invention. 35 U.S.C.A. § 112.

28. Patents @319(4)

should recover prejudgment interest under 35 U.S.C.A. § 284 in order to prevent infor infringement of its patent, patentee In addition to other relief recoverable

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ey which it would have been paying in royalties.

29. Patents 416.14, 235(2)

involving restraining device used to hold a Claims 1, 2, 3, 8, 12, and 13 of patent truck in place while being loaded or unload. ed from a loading dock were valid and

30. Federal Courts ⇔685

Even though notice of appeal had not yet been filed, district court had authority to grant stay of injunction pending appeal conditioned on movant's filing of notice of appeal within a specified period. Fed. Rules Civ. Proc. Rule 62(c), 28 U.S.C.A.

31. Federal Courts \$\=685\$

District court may in its discretion suspend final judgment granting injunction if party seeking suspension of judgment pending appeal can show that it is likely to prevail on merits on appeal, it will suffer irreparable injury unless stay is granted, stay would not substantially harm other parties to the litigation, and stay is in the public interest. Fed.Rules Civ. Proc. Rule 62(c), 28 U.S.C.A.

32. Federal Courts \$\=685

Showing of absolute probability of success on the merits on appeal need not be made in order to obtain stay of injunction pending appeal if injunction would destroy harm to appellee. Fed.Rules Civ. Proc. Rule status quo, irreparably harming appellant, and grant of stay would cause only slight 62(c), 28 U.S.C.A.

33. Federal Courts \$\=685

Patents @324.1

Stay pending appeal, without bond, of injunction enjoining competitor from indays of filing date of decision and order fringing patent would expire within 30 granting the injunction unless notice of appeal was filed within that period. Fed. Rules Civ. Proc. Rule 62(c), 28 U.S.C.A.

Theodore W. Anderson, Arthur W. Olson, Jr., Lawrence E. Apolzon & Roger H.

fringer from having benefit of use of mon- Stein, Neuman, Williams, Anderson & Olson, Chicago, Ill. and Gilbert W. Church, Foley & Lardner, Milwaukee, Wis., for plaintiffs. Glenn O. Starke, Andrus, Sceales, Starke & Sawall, and Matthew J. Flynn, Quarles & Brady, Milwaukee, Wis., for defendant.

DECISION AND ORDER

REYNOLDS, Chief Judge.

This is an action in patent infringement and unfair competition. Federal jurisdiction derives from 28 U.S.C. § 1338. The plaintiffs Rite-Hite Corporation ("Rite-Hite") and its independent representatives that Kelley has competed unfairly by its use of a promotional film. Kelley has counterclaimed, alleging that Rite-Hite's patent is obvious in view of the prior art and is therefore void, and that Rite-Hite seek a judgment that a truck restraining fendant Kelley Company, Inc. ("Kelley") infringes a patent owned by Rite-Hite, and device manufactured and distributed by dehas competed unfairly.

The parties have agreed that the issues of liability and damages be tried separatey. Rite-Hite also applied for preliminary injunctive relief with respect to its claim of motional film, and Kelley was enjoined from further use of unexpurgated versions of the film by the Court's order of March 16, 1984. Kelley was subject to this order at the time the issues of liability on the patent claims and Kelley's claims of unfair unfair competition respecting Kelley's procompetition were tried to the Court.

The foregoing claims were tried to the Court between May 20 and May 29, 1985. At the close of the proceedings, I stated:

I am persuaded that the evidence com-I have to find that the patent was in-It was not obvious. And I am sorry that pels a decision that the patent is valid.

willful. I think that the Kelley people, in I do not believe the infringement was the spirit of good competition, Rite-Hite came out with a product, and they wanted to meet the product and they did the

think the evidence compels me to find best they could and certainly did not intend to infringe on that patent, but l that they did.

powers, issuing any more injunctions for injunction. I see no reason for the Court used very sparingly. I don't think there is any irreparable injury on either side as far as this advertising. The film has not been used for a couple years, or at least since we had the hearing on preliminary in the exercise of its discretion and injunctive powers to be issuing-equity the federal court I think should be As far as the unfair competition issues involved, the use of the injunctive powers either side.

an outcome favoring the defendant and are lows, therefore, are essentially the findings of fact and conclusions of law proposed by plaintiffs with exceptions where a defense objection has been sustained by the Court suaded that certain of the objections should be sustained, but that others would direct not supported by the evidence. What folview of the evidence presented at trial. objections. Kelley has also moved for a stay of the injunction pending appeal, and Rite-Hite opposed this motion. I am perof law, with a period of time allotted to and the plaintiffs have responded to the The plaintiffs were then directed to file proposed findings of fact and conclusions defendant to comment thereon. The plaintiffs have filed their submission, the defendant has objected to certain provisions,

FINDINGS OF FACT

A. Parties and Jurisdiction

- poration having its principal place of business at Milwaukee, Wisconsin. The other plaintiffs are Rite-Hite's independent and exclusive sales representatives throughout 1. Plaintiff Rite-Hite is a Wisconsin corthe country.
- 2. Defendant Kelley is also a Wisconsin corporation with its principal place of business at Milwaukee, Wisconsin.
- Rite-Hite and Kelley, together, are dominant factors in the dock leveler indus-

try and have been keen competitors since Rite-Hite was founded in 1965.

- United States, Title 35 U.S.C. The court has jurisdiction under 28 U.S.C. § 1338(a), and venue lies in this district under 28 ment arising under the patent laws of the 4. This is an action for patent infringe-U.S.C. § 1400(b).
- the statutory and common laws of the 5. There are also claims and counter-State of Wisconsin. The court has jurisdicclaims for unfair competition arising under tion under 28 U.S.C. § 1338(b).

B. History of the Case

- competition count was heard by this Court junction enjoining use of a motion picture Rite-Hite charged Kelley with infringement as well as with unfair competition. On a preliminary injunction motion, the unfair on February 27 and 28, 1984. A decision was rendered in favor of Rite-Hite on March 16, 1984, granting a preliminary infilm which appeared to characterize unfairof U.S. Patent 4,373,847 (the '847 patent), 1983, shortly after the patent-in-suit issued. 6. This action was initiated in early ly Rite-Hite's Dok-Lok product.
- relate to unfair competition and are menpatent owned by the plaintiff Rite-Hite, and under which the other plaintiffs-Acme Dock Specialists, Inc., et al.-have certain exclusive territorial rights, and (2) whether Kelley could carry its burden that the '847 patent is invalid. The remaining issues A trial was held before the Court in this The main issues were (1) whether or not 7. Rite-Hite subsequently filed a motion pendent and exclusive Rite-Hite sales repaction from May 20 through May 29, 1985. the defendant Kelley has infringed the '847 for intervention on behalf of certain inderesentatives, and the motion was granted. tioned further below.

C. Rite-Hite's Background

semi-automatically bridge the gap between boards, are devices that automatically or a truck and a dock so that forklift trucks 8. Dock levelers, or automatic dock-

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ers, in general, have replaced the loose can safely pass over that gap during the loading and unloading process. Dock levelplates that were often used when loading and unloading was done manually.

- pens a forklift can fall through the gap 9. For years, dock leveler users and because of the way that large trucks and trailers, for a variety of reasons, inadvertently separated from the dock during the loading or unloading process. If this hapmanufacturers as well as regulatory agencies recognized that a safety hazard existed between the truck and dock onto the driveway below, and the results for the forklift truck and its operator can be catastrophic.
- truck. In this situation, there is nothing at parked in a position where it is supported in part by the dockboard and in part by the all to keep the forklift and its operator from falling through the gap between the 10. For instance, the forklift truck will almost always drop to the pavement if, when the truck pulls away, the forklift is truck and the dock.
- tice the gap and drive the forklift off the truck bed, especially if he is backing up out sudden accelerations and decelerations of a loaded forklift inside a truck. In this situathe truck away from the dock can produce referred to by Kelley and Rite-Hite as 11. The forklift truck will also be exposed to this type of accident if it is moving either into or out of the truck or trailer at the time the truck separates from the dock. In such situations, the driver may not noof the truck. Another hazard exists from tion, a considerable force tending to push disaster. This phenomenon is sometimes "trailer creep."
- 12. Aware of these life-threatening problems, but lacking a real solution in the late 1960's and early 1970's, Rite-Hite provided its only answer at that time, its Total ing sign, and a "Dock Safety Rules" sign. But these were not an adequate remedy for Dock Safety (T.D.S.) Package (PTX-3)1, which included wheel chocks, a large warn-
- References to plaintiffs' trial exhibits will be identified as "PTX ______ and defendant's trial

the problem. Kelley worked on a somewhat similar and equally ineffective "com-

that was supported by the truck tends to 13. In yet another situation, the forklift driver can suffer severe or fatal injuries even if, when the truck inadvertently separates from the dock, the forklift is parked in a stationary position on the dockboard This is because, in normal operation, the outward or free end of the dockboard rests on the bed of the truck. When the vehicle pulls away, the end of the dockboard lip drop. This, in turn, tends to tip the whole dockboard downwards and pitch the forklift, its operator, and/or its load onto the and is fully supported by the dockboard. munication" system. driveway.

from the dock. Kelley developed its "Panic ratchet that was engaged to prevent the down abnormally fast. This prevented the ty Legs" in the early 1970's which, when which the dockboard would descend in this the problem of accidental dropping of the 14. To eliminate this latter hazard, dock leveler manufacturers many years ago designed safety devices into their dock levelers to limit the extent to which the dockboard could tip downwards in the event of the inadvertent separation of the truck Stop," which was patented in the middle 1960's (DTX-183-8). This device had a outward end of the dockboard from moving downward if the dockboard started to move further downward progress of the board. Rite-Hite also developed its patented "Safenot needed, could be pulled away, but when in normal operation, limited the extent to situation. Neither of these devices provided a complete solution to the problem, but they clearly recognized the very real hazard and need. In its 1966 patent (DTX-183-8), Kelley acknowledged that dock accidents could result in death and added that ramp "has been a thorn in the side of mechanical dockboards for as long as such boards have been made" (DTX-183-8, col.

disputes between dock equipment manufacturers. Rite-Hite sold its devices as stanboard safety devices described above could be sold as "options" or whether they should always be made mandatory features dard equipment. Kelley's devices were on all dock levelers was the subject of 15. The question of whether the docksold as options.

Wheel chocks were ineffective. K. White, became convinced that these safety stop devices then being offered were He concluded that what was really needed was something to restrain the vehicle physically so that it could never move away from the dock inadvertently. No effective device was offered on the market at that Warning and "communication" systems tee MH14 was held in October 1975 to consider, among other things, this question of whether "safety legs" on dock levelers should be options or standard. During the course of this meeting, Rite-Hite's founder and representative at the meeting, Arthur an approach to only part of the problem. 16. A meeting of American National Standards Institute (ANSI) Safety Commitwere likewise ineffective.

The Development of Vehicle Restraints at Rite-Hite ä

during a product development program that lasted for a number of years. After Rite-Hite introduced its commercial Dok-Lok vehicle restraints, the rest of the industry, including Kelley, were skeptics or 17. The '847 patent claims one of a series of basic inventions that Rite-Hite made

industrial hook that could be attached to latch which held a flexible steel cable and was long and arduous. Rite-Hite's first vehicle restraint, which was developed by anism mounted on a driveway in front of a Another device developed shortly thereafter consisted of a pipe clamp type of 18. Rite-Hite's development program loading dock. The "engaging mechanism" was disposed at an angle relative to the driveway and engaged a part of the truck. 1977 but never marketed, involved a mech-

U.S. Patent 4,146,888 on March 27, 1979 (PTX-1b). A physical example of this de-1977 for the Hydraulic Securing Device (flexible cable) that ultimately issued as vice was demonstrated at the trial (PTXany holes or crevices in the trailer to hold it in place (PTX-16). The next effort in-These devices all performed the same funci.e., they prevented the truck from inadvertently separating from the dock. Rite-Hite filed a patent application in October of volved a flexible cable and hydraulic holding device (PTX-124). Both of these devices were mounted on the dock platform. tion that they were designed to perform,

to use. They were also obtrusive and vulnerable to damage because of their location either on the driveway, where they could be hit by trucks or snowplows, or on the top surface of the loading dock, where they could obstruct traffic or be vulnerable to But these early vehicle restraints had drawbacks. They were relatively expensive, and they were relatively difficult forklift trucks moving about the dock. 19

device represented a major advance in the Rite-Hite filed a patent application which issued as U.S. Patent 4,208,161 (PTX-1d). Physical exhibits of these devices were also demonstrated at the trial (PTX-17 and hook was operable either manually (by a dock leveler). When used, it was pivoted upwardly to an operative mode to engage the truck via the truck's ICC bar. This art of vehicle restraints. Accordingly, driver standing on the driveway) or automatically (with the power of an activated the vertical face of the dock where it was damaged. This device included a "pivoted hook" member. The hook had a shank pivoted to the wall and a right angle hook to engage a vehicle. The hook member, when not used, was stored in a downwardly rotated position with the shank pendent along the wall. As the pivoted hook members refined over several generations, the 20. By the spring of 1978, Rite-Hite had developed a vehicle restraint mounted on less of an obstruction and less likely to be

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U.S. Patent 4,282,621 (the '621 patent) (PTX-6h). A physical exhibit of this device

was demonstrated at trial (PTX-19).

But these devices with a pivoted terms of the variations in ICC bars that could be accommodated. ICC bars are bars hook also had drawbacks. The main drawback was the fact that they were limited in showed that "over-the-road" trailers had a lier generations (PTX-18) by permitting the hook to rotate against the resistance of a that the Interstate Commerce Commission requires on most trucks to prevent low them in the event of rear-end collisions. To learn about the variations in ICC bars, Rite-Hite conducted surveys of thousands of trailers and obtained data from trailer These surveys indicated that ICC bars were present on all over-theroad trailers and also provided Rite-Hite with extensive knowledge about the differbars in terms of shape and height from the ground. Rite-Hite found that the ICC bar height varied as much as 15 inches from ground, and this variation presented serious problems for Rite-Hite's early pre-1978 inventive efforts. The surveys also suspension "float" of 2 inches to 21/2 inches. Float was accommodated in one of the earautomobiles from running underneath ences that existed between the various ICC the legal maximum of 30 inches above the manufacturers.

above the ground when it was not in operaindicated would be encountered. The car-22. By late 1978, an adjustable trapezoidal carriage was developed and added, and the pivoted hook was then mounted in the carriage. The carriage was biased upward with springs stored in the dock leveler to hold the carriage with the enclosed hook tion. The carriage was actuated by movement of the ICC bar so that the carriage moved down against the springs as the truck backed into the dock. The downward movement of the carriage positioned the hook so that it was always in a good position to be activated and pivoted up to engage the ICC bar. With this device, Rite-Hite found it could accommodate the vast bulk of the ICC bars which its research had riage also accommodated "float." This device was another substantial advancement in the art of restraining trucks, and Rite-Hite filed a patent application resulting in

23. In 1979, Rite-Hite developed some improvements which further refined this "pivoted hook" restraint. Among other things, the springs are incorporated into opposite sides of the trapezoidal carriage along which the carriage slides so that the dock leveler, and rotation of the hook was motorized. It is this version of a restraint with a pivoted hook that was ultimately commercialized in the spring of 1980 as the (PTX-6j), disclosing and claiming this derestraint can operate independently of any Model ADL-100 Dok-Lok vehicle restraint. U.S. Patent 4,264,259 (the '259 Patent) vice, issued on April 28, 1981. This device was also demonstrated at trial (PTX-131).

E. U.S. Patent 4,373,847

Model ADL-100. One of the program's objectives was cost reduction and simplification. In order to achieve that objective, a vehicle restraint that was simple, more rugged and inexpensive, and that could be 24. Rite-Hite's development program continued after the introduction of the manually operated, if desired, was sought. 25. In the spring of 1981, about a year ven Hipp and Norbert Hahn developed the This is the system of the '847 patent and the Kelley Truk Stop. The '847 patent is entitled RELEASABLE LOCKING DE-VICE, was filed in the U.S. Patent and Trademark Office on May 4, 1981, and isafter the introduction of the ADL-100, Stefirst of Rite-Hite's MDL vehicle restraints. sued on February 15, 1983.

approach to a vehicle locking device or vehicle restraint for securing a parked vehicle to an adjacent stationary upright structure patent has a frame vertically extending up the dockwall and secured to the exposed surface of the wall. It has a hook assembly that has a follower mounted in the frame for vertical movement between an upper operative position, where it will se-The '847 patent is directed to a new such as a dockwall. The device of the '847

cure the vehicle against the wall, and a from the wall. The hook assembly has a further has a retaining means to retain the hook in its upper operative position but to selectively permit the hook to be released ower inoperative position free of the vehicle so that the vehicle can be driven away horizontal shank portion extending outwardly from the follower and a vertical hook portion. The device of the '847 patent to its lower inoperative position.

downward when subjected to the forces of against the biasing force of the spring to able feature, for without it, the device could become "jammed" by the weight of the truck pushing down on the hook assemward float is made possible by heavy duty springs which hold the slide so that the slide and the first part of the retaining means are upwardly biased even when not restraining a vehicle. As a result, the retaining means and the hook element can move, as a unit, several inches vertically provide downward float. This is a desirbly engaged with the ICC bar. This downmovement of the hook from an operative to ing of the vehicle, such as upon the entry of a forklift truck, will cause the hook, the slide, and the two parts of the retaining means to move together downwardly an inoperative position. Thereby, any loadbasic structure, the device of the '847 patent includes a slide as a part of the fixed wall-mounted frame, which is urged upwardly by a biasing force and has a first part of the retaining means secured to it. A coacting complimental second part of the retaining means is carried by the hook and engages the first part to prevent accidental 27. In addition to the above-described

employed instead of a ratchet. At column particular embodiment. At column 3, line 5, the description makes it clear that other equivalent devices, and in particular elongated vertically extending devices, could be second part is a pawl, the description in clear that the patent is not limited to this 28. While, in the preferred embodiment described in the '847 patent, the first part column 2 starting at line 2 makes it very of the retaining means is a ratchet and the truck being loaded.

the testimony of both experts, the Patent iner, are the equivalent of the ratchet and pawl shown in the particular embodiment evidence, it is clear that the rack and pinion of Kelly and the threaded shaft of the Taylor, et al., reference, cited by the Exam-4, lines 9-10, the description makes it equally clear that other equivalent devices could be substituted for the pawl. From Office prosecution history, and the other described in the '847 patent.

finding that the Kelley rack and pinion whether the word "releasably" was apt in tive position. The term is apt as indicated by the use of the term "Release" on the fruck Stop control box for the purpose of lowering the hook to release it from en-Engineering and who testified as an expert witness for Kelley at trial, questioned releasably retained the hook in its operaand the Kelley Truk Stop. Mr. Kjell Erlandsson, who is Kelley's Vice President of 29. Recognizing the advancement in the ing this system. A physical MDL truck ent (PTX-20) was demonstrated at trial and was also compared to the Model MDL-55 (PTX-123) and the Keiley Truk Stop (PTX-21) systems. The claimed elements in Claims 1, 2, 3, 8, 12, and 13 of the '847 patent are found in the MDL, the MDL-55, art of vehicle restraints represented by the MDL Dock-Lok, Rite-Hite sought and obtained the '847 patent disclosing and claimrestraint constructed in accordance with the described embodiment of the '847 patgagement with a vehicle.

into the operating position to reduce the from and an improvement over previous 'pivoted hook" designs in part because the gular area from the smaller semi-circular area provided by the pivoting hook, resulting in a better range of engagement. Also, the vertically travelling hook assembly has a smaller sweep or clearance area moving 30. The value of the invention of the model MDL and '847 patent is not limited to simplicity of construction or the possibility of manual operation. The vertically traveling hook assembly is a new departure capture area available to engage an ICC bar by the hook was changed to a rectan-

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chance of interference with things other cally moving hook assembly. Mr. Erlandsson made these observations at his deposiadvantages at the trial. In addition, the than the ICC bar. In addition, the pivoting as there is no such concern with the vertition and continued to acknowledge these Model MDL can be used either with or hook has a tendency to rotate away, wherewithout a power source.

The '847 Patent Was Commercialized As the MDL-55

the hook is not initially springblased up against the ICC bar. At the trial, the 31. Rite-Hite had successfully tested production prototypes, was completing prolarge production quantities of parts when 1981 came up with an improved version, he MDL-55. Although the basic device shown in the '847 patent had downward float, this unit did not have what people in evidence established that normal "over-theroad" trucks deflect between about 1 inch the vertical hook portion of the hook assembly shown in the '847 patent would accommodate the upward float of the ICC bars. The vertical hook portion of the hook assembly could also, of course, have been sation for the "upward float" of the ICC duction drawings and obtaining quotes on Messrs. Hip, Hahn, and Swessel in midthe industry today call "upward" float, i.e., and 21/2 inches, so that in most situations, made longer to provide additional compen-

nave weaker springs and, thus, deflect This improved MDL device, the Model MDL-55 vehicle restraint, is disclosed and claimed in U.S. Patent 4,443,150 (PTX-11). off the truck, an initial bias is provided that can raise the vertically movable hook. This dles not only "over-the-road" trailers but 32. With the improvement of the MDL-55, if the ICC bar rises as weight is taken increased the versatility of the vertically moving hook. The improved restraint han-"city" trucks (a small percentage of the vehicles to be restrained), which generally more than the "over-the-road" trailers.

This model was also demonstrated at the 33. Kelley did not dispute that this imtrial (PTX-123).

55's have been sold, generating sales in the proved model MDL-55 device uses the '847 Rite-Hite and is a current successful prodpatent and has been commercialized by uct of Rite-Hite. Over 1,800 of the MDLmillions of dollars.

case, it appears from all of the evidence that the invention of the '847 patent was a 34. Similarly, the Kelley Truk Stop uses pawl of the specific embodiment of the '847 patent, Kelley obtains the same advantages ley's Truk-Stop is additional evidence of the the '847 patent. While one can never be certain of the precise causal relationship of commercial success, nevertheless in this the '847 patent, but by using a motor and rack and pinion instead of the ratchet and as the MDL-55's initial upward float. Kelcommercial success of the invention of very significant factor.

G. Kelley's Development of Its "Truk Stop" Device

nation and adoption of the Rite-Hite MDLcate that Kelley learned about and made its vertically moving hook through its exami-35. The facts established at trial indi-55 device and the related literature. 36. Kelley's imitation of the vertically moving hook and the other elements of the '847 patent is indicative of the value, the importance, and the unobviousness of the invention claimed in the '847 patent. Furthermore, the fact that Kelley has procured U.S. Patent 4,488,325 (DTX-212), on aspects of its vehicle restraint, does not negate the infringement of Rite-Hite's '847 patent. The very foundation of the patent system contemplates that users of a basic patent will make improvements with time. Both Kelley and Rite-Hite did so here, but if anything, that enhances the dignity of the '847 patent. 37. Kelley's first knowledge of a workable vehicle restraint came with the introduction of the ADL-100 Dok-Lok sold by Rite-Hite in April of 1980. In June of 1980, Kelley's response to this first device of

Rite-Hite was to propose various communin June of 1981, Kelley was still working on cations devices (PTX-64). One year later, communications-type devices (PTX-65).

the time of the introduction of Rite-Hite's sued an instruction (PTX-30), the purpose of which was to allow the use of vehicle In the late summer of 1981, about Model MDL-55, the Occupational Safety and Health Administration ("OSHA") isrestraints without wheel chocks.

Hite dock levelers which would otherwise be sold by Kelley (PTX-36). This was a double injury in the market place. As a result, the representatives found that their pered by the presence of Rite-Hite vehicle 39. At about this same time, Kelley's without a vehicle restraint in its product line) that sales of Rite-Hite's vehicle restraints could be coupled with sales of Riteability to sell dock equipment was hamsales representatives began expressing increased concerns to Kelley (which was still restraints.

40. Kelley had no plans for a physical restraint at the time of the OSHA instruction. Rather, Kelley's focus was still on standing problem, Kelley had failed to reccommunication. Knowing of the longognize the solution.

referred to its vehicle restraint as "Kelley's ately on a vehicle restraint to compete less than \$1,000 (PTX-32). During the On Friday, November 13, 1981, John keting) sent a memo to Joseph Driear (Kelley's Director of Engineering) formally requesting Mr. Driear to begin work immediagainst the Rite-Hite Dok-Lok and to cost course of this program, Kelley personnel Hogseth (Kelley's Vice President of Marversion of the Dok-Lok" (PTX-36).

handwriting of the same date indicates that and a memo at the bottom in Mr. Driear's Mr. Driear would comply with Mr. Hogseth's requests but that the following were 42. On the following Monday, November 16, 1981, Hogseth's memo (PTX-32) was marked "received" by "Engineering, initially required:

OSHA regulations that sanction the use (a) Engineering needed a copy of the

of vehicle restraints (this was done four days later as noted below);

(b) The formal "request" for the product development program should be submitted (there is evidence that this was, apparently, never done);

ing on September 17, 1981, as an attachment to a memorandum from Hogseth (the operating instruction sheet for the MDL-55 had been received by Engineer-(PTX-31), but other literature, such as an ADL_100 booklet, was not provided until literature should be sent to Engineering (c) A copy of the "complete" Rite-Hite later); and

(d) A sample of the Rite-Hite product should be made available to Engineering (this was done on December 30, 1981, as described below).

of the patents (PTX-33). His notes all portray, among other things, the "pivoted hook" configuration shown in the Rite-Hite ents, including the patent claiming the hook), and made notes regarding the claims 43. On the next day, Mr. Driear carefully reviewed copies of certain Rite-Hite pat-Model ADL-100 restraint (with a pivoting patents.

marked "patent pending" (PTX-93), no search or study was made or opinion given on what patents might issue on the MDLtorney, Glenn Starke, visited Mr. Driear, and they discussed the Rite-Hite patents. Although the Model MDL-55 devices were 44. About that time, Kelley's patent atAlso, at about this time, the vehicle restraint development project of Kelley was assigned the project number "915" and was assigned to David Bennett, a young engineer working under Mr. Driear's supervision. Mr. Bennett is now deceased. Kelley continued to work on communications-type systems (PTX-65). 45.

46. A date stamp on the OSHA instruction indicates that it was received by Kelley's engineering department on Friday, November 20, 1981 (PTX-30).

47. On December 29, 1981, Mr. Bennett wrote a memo in longhand setting forth the

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work schedule" for the "trailer anchoring device" (PTX-38). The memo sets forth a (PTX-58), also generally summarizes the work done on project 915 during December rruck/trailer anchoring device proceeded tional information on Rite-Hite's product. A memo and monthly report dated January 14, 1982, from Mr. Driear to Mr. Kuhns of 1981 as follows: "Conceptual work on slowly due to higher priority projects." development of vehicle restraint to compete if any, progress had been made in the design work up to this point, and a high Thus, at the end of 1981, Kelley was still without a defined concept or significant number of tasks which indicate that little priority had been given to obtaining addi with Rite-Hite.

ly ordered Model MDL-55 Dok-Lok vehicle restraint was finally installed at Kelley's Tuf-Seal subsidiary (PTX-129). An hour graphs of the device were taken then and division (PTX-22 through PTX-29). These 26), the disassembled vehicle restraint as well as with a tape measure (PTX-24 and PTX-29) next to certain parts. One of these photographs shows the serial number tag on the device (PTX-26). At that time these tags indicated that patents were On December 30, 1981, the previousafter the installer left, the Kelley engiing, disassembling, measuring, operating, and photographing it. Polaroid photolater placed on file in Kelley's engineering photographs, discussed at trial, show Mr. Driear at the site of the installation (PTXneers, including Mr. Driear, began inspectpending on the device (PTX-93). 48

operates by relative movement to position or had available to them as of the end of tion of the Rite-Hite Model MDL-55. They a channel in the support for a slide, a hook tion, and permit downward float of the slide, hook, and retaining means as a unit December 1981, everything that was possible for them to know about the construcmounted for vertical movement in the supthe hook on the slide, retain it in the posiknew the fact that it had a vertical support, port, and a ratchet and pawl assembly that 49. Messrs. Bennett and Driear knew against a biasing force.

of a publication draft of a Model ADL 50. On the next day, Robert Kuhns sent Service Bulletin that Kelley had obtained a memo (PTX-55) to Mr. Driear and a copy on May 5, 1980, stating: With this (I think George Zahorik has the

original) and the Tuf-Seal Mechanical

[MDL Dok-Lok], we should be able to sketches that have been found of Kelley's device, which embodied all of the features of Rite-Hite's device described above and claimed in the '847 patent claims 1, 2, 3, 8, 51. By January 12, 1982, the move.

sketches show the product that was eventually commercialized as the Truk Stop. 12, and 13, were complete. These first

these January sketches were not the earliest sketches and that they had previous unable to produce any earlier sketches Truk Stop, notwithstanding numerous requests made by Rite-Hite's counsel before and during the trial. In fact, on January 15, 1982 (PTX-57), these sketches were signed and witnessed by Kuhns and Driear. after Kelley's same engineers viewed, opersketches and work. However, Kelley was showing a device similar in any way to its Furthermore, the evidence established at have the first description or sketch of an invention witnessed so as to corroborate the date and provide credible evidence of the Truk Stop device were not made by Kelley's engineers until about two weeks ated, and disassembled Rite-Hite's MDL-52. At the trial, Kelley claimed that the date of the invention. Thus, based upon this evidence, the earliest sketches of trial indicates that Kelley's practice is

totype of Kelley's Truk Stop restraint was Photographs of this prototype (PTX-43) complete, operating, and ready for testing. were taken by Kelley specifically for the By February 23, 1982, the first propurpose of establishing this date. 33

54. On March 1, 1982, the design of the Truk Stop product was released at a "show 1, 1982, the product was available for introand tell" demonstration, and by about July

tion, shortly after the date projected by duction to the representatives and produc-Kelley in the fall of 1981 (PTX-32).

the testimony of Kelley's personnel and its of a product that would compete with Riteto come up with a competing device until after its engineers had the benefit of the The evidence at trial, both through documentation, shows that Kelley had given a great deal of thought to the question Hite's vehicle restraint, and that Kelley had made little progress in its own efforts MDL_55 Dok-Lok brochures and inspected, tested, and dismantled an actual MDL-55.

gleking, a Kelley sales representative in troverted. That evidence showed the commercial impact of the Rite-Hite Dok-Lok dent of Kelley, during a private showing of MDL-55 and explained the relationship be-Minneapolis in 1981 and 1982, was unconrestraints, the need for such device, and the response of Kelley. Mr. Kuhns, Presidemonstrated it side by side with Rite-Hite the new Truk Stop in the spring of 1982, 56. The testimony at trial of Robert Entween them to Mr. Engleking.

Kelley Has Failed to Prove That the '847 Patent Is Invalid ᆵ

burden that the patent is invalid and holds that Kelley has failed to carry forth its 57. Kelley has asserted invalidity of the claims in suit of the '847 patent, stating that the claimed combination is obvious and shown in the prior art. The Court finds that the claims in suit are not invalid.

The Claimed Invention Is Nonobæ

dence of nonobviousness such as long-felt need, commercial success, failure of others, copying, and unexpected results. Based upon the evidence coupled with an analysis Kelley has alleged that the asserted tained the difference between the prior art and subject matter claim, (3) determined given consideration to the objective eviclaims are obvious over the prior art. On this issue the Court has (1) determined the scope and content of the prior art, (2) ascerthe level of ordinary skill in the art, and (4)

of this indicia, the Court finds that the subject matter of claims 1, 2, 3, 8, 12 and 13 are nonobvious.

4,282,621 (PTX-1-g), which issued to Anthony, et al., for a Releaseable Locking restraint program. The '621 patent teaches no more than the '259, '748, or '161 aminer, is more pertinent than U.S. Patent 1,264,259 (PTX-1-e), issued to Mr. Hipp for 1,267,748 (PTX-1f), issued to Grunewald, et and U.S. Patent 4,208,161 (PTX-1d), issued to Mr. Hipp, et al., for Device For Releas-Examiner. All of these patents, discussed earlier, resulted from the Rite-Hite vehicle patents, which were before the Examiner. Erlandsson's testimony that U.S. Patent Device and which was not before the Exal., for a Releasable Locking Mechanism; ably Securing A Vehicle To An Adjacent Support, all of which were cited by the art references during the trial. Many of and some of them were not. With respect the Court finds that none of these are more a Releaseable Locking Device; U.S. Patent 59. Kelley set forth a number of prior these references were before the Examiner to the references not before the Examiner, pertinent than the art before the Examiner. Along these lines, the Court rejects Mr.

a stationary upright structure such as a dock wall. Thus, none of the prior art 60. The plethora of references set forth by Kelley in general fall into two categories. The first category contains ratchet (DTX-202). The reliance on these references is based upon Kelley's misapprehension of the claims as being specific to a ratchet and pawl as an element of the claimed combination. None of the claims is limited to a ratchet and pawl, and Rite-Hite never contended it had invented a ratchet and pawl. Kelley put in no evidence that any of the ratchet and pawl references suggested use of that element in the claimed combination to secure a parked vehicle against tems in DTX-202 is of significance in the and pawl references shown in a montage issue of obviousness.

61. The second category of prior art is that shown in DTX-201. These references all relate to some type of vehicle restraint,

the Court finds that the claimed combination would not have been obvious to one

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but none shows the claimed combination of

skilled in the art at the time of the inventhe '847 patent. The closest references to the asserted '847 patent claims are the

64. Even if this Court adopts Kelley's qualified engineer) suggested by Kelley's expert witness, Mr. Erlandsson, this Court finds that this invention would have been definition of the higher level of skill (a nonobvious.

None of those references suggest going to

the system of the '847 claims with a horizontal hook shank mounted to a follower to a vertical support or with a biased slide and retaining means for the vertically movable slide, a vertically movable hook in the slide and retaining means to support the hook

work of Rite-Hite's development team.

hook. Nor do those references suggest a

fixed in the slide, all vertically movable as

a unit to provide float.

62. The examiner had the best of these Hite's '259, '161, and '748 patents showing The Examiner was correct in finding

references before him; that is, Rite-

pivotally mounted hooks on a vertical wall.

the '847 claims unobvious and patentable thereover. While each single element of the claims may have precedent in the prior the combination of elements set forth in the claims of the '847 patent asserted here

art, as is true in most mechanical patents,

need in the dock equipment industry and

was not suggested in any reference. Kel-

ley was well aware of the serious safety hazard, including injuries and even deaths, from inadvertent and accidental withdrawneed for a practical solution since at least

and inexpensive solution to a very long-felt

was novel. It proved a workable, efficient,

65. This finding of nonobviousness is further supported in light of the objective evidence of unobviousness. For example, the '847 patent provided a solution to the including Kelley, until after Hipp and Hahn made the invention and Rite-Hite began to sell the invention of the '847 patent as the that time, Kelley concentrated its efforts long-felt need that escaped the industry, Model MDL-55 vehicle restraint. Before on communications devices and not physical restraints, and even when charged with coming up with physical restraints, it was unable to do so.

55 installed on the dock of its Tuf-Seal subsidiary on December 30, 1981. Kelley's the Rite-Hite MDL-55. Within a few 66. A further indicium of nonobviousness is copying or imitation by competitors. up with a solution or a construction for a physical restraint on its own prior to receiving the Rite-Hite MDL-55 literature in the late summer of 1981 and having the MDLofficers and engineers, within hours after the Rite-Hite installation was completed at Puf-Seal, were inspecting, operating, photographing, disassembling, and measuring weeks thereafter, the Kelley documentary came the Truk Stop, including a witnessed 1982 (PTX 43). Such evidence further sup-In this case, Kelley was not able to come records show the first evidence of the development of the truck restraint that beprototype, which was made in February of drawing (PTX 57) and other subsequent indications of the construction of the first ports the argument of unobviousness.

> als of trucks from loading docks and the as early as 1966 when they sought patent protection on what they called the Panic

67. As mentioned earlier, while it is nevsuccess of both the MDL-55 of Rite-Hite er possible to relate commercial success to one specific cause, the invention encompassed by the '847 patent is one significant cause that has resulted in the commercial and the Kelley Truk Stop.

sor John Strait who stated that the level of skill is relatively low, and that a person with several years of design experience in the ordinary skill. A few of the workers in the art, usually managers, might have an engineering degree. With this definition,

the steel and machinery art would typify

tween the parties at the trial about the 1980's. The Court adopts the definition of plaintiffs' technical expert witness Profes-

level of ordinary skill in the art in the early

There was some disagreement be-

. 83

Stop (DTX-183-8).

providing increased float as compared to uct represents an improvement that came the addition of a motor drive or means for the fact that Rite-Hite's commercial prodafter the basic invention of the '847 patent in no way detracts from the commercial Kelley claims that the commercial Rite-Hite product, the MDL-55, also incorporated an improvement over the basic disaxiomatic in the patent law that one cannot avoid infringement of a basic patent, such as the '847 patent, by making certain improvements on the basic structure, such as the structure of the '847 patent. Similarly, closure of the '847 patent. It is, of course, success of the patented structure. 68

Kelley Has Failed to Prove Anticipation ف

er it alleged an anticipation under any sec-Kelley has also alleged that the asalthough its evidence was vague on whethtion of 35 U.S.C. § 102. The Court finds that Kelley has failed to carry forth its serted claims are shown by the prior art, burden on this allegation.

tion, and operation vary so drastically and distinctly from the claimed invention that it cannot be found that these devices show duced by Kelley anticipates the claimed invention. Even if these devices include each of the claimed mechanical elements, their structure, interrelationship, applicatechnical expert, Mr. Erlandsson, stated ual, show the claimed combination in the asserted claims. Yet these prior art devices do not relate to the patented invention. They are far afield and offer no suggestion of an apparatus for restraining a parked vehicle against a stationary upright structure. No single reference intro-70. In particular, at the trial, Kelley's that prior art, such as U.S. Patent 621,858 issued to Schwarz for Easel and a 1977 Ford Automobile Jack and operating manhe claimed combination.

Kelley's Infringement of the '847 Pat-

71. Infringement of Claims 1, 2, 3, 8, 12, and 13 of the '847 patent by the Kelley

ticular, Professor Strait showed how the the drawings of the '847 patent (PTX-10 proved Model MDL, which has met with commercial success in the marketplace through sales of over 1,800 units), and Kelfacilitate reading these claims, they were broken down at trial and compared with features and elements of the Kelley device. Rite-Hite's technical expert witness, Professor Strait, explained the relationship at the trial with the assistance of colored charts of the '847 patent drawings (PTX-10) and Kelley's device (PTX-14) as well as demonstrations of various models. In parasserted claims of the '847 patent read on and PTX-10-A), the Model MDL (PTX-19), the Model MDL-55 (PTX-123) (the immark "Truk Stop" was proven at trial. To vehicle restraint marketed under the tradeley's Truk Stop device (PTX-21).

ley's product and in the form as relied upon by the plaintiffs at trial in PTX 11, 12, and 13, are as follows: 72. Claims 1, 2, 3, 8, 12, and 13 of the '847 patent, as asserted against Kel-

CLAIM 1

a parked vehicle to an adjacent relatively stationary upright structure, said device A releasable locking device for securing comprising

(a) a first means mountable on an exposed surface of the structure,

(b) a second means mounted on said first means for substantially vertical movement relative thereto between operative and inoperative modes,

when in an inoperative mode being a predetermined distance beneath the location of said second means when in an (c) the location of said second means operative mode and in a non-contacting relation with the vehicle,

(d) and third means for releasably retaining said second means in an operative

section projecting outwardly a predetermined distance from said first means and the exposed surface of the structure, one (e) said second means including a first

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end of said first section being mounted on said first means for selective independent movement relative thereto along a path, and a second section extending angularly upwardly from said first section and being spaced outwardly a substantially fixed distance from said first means and the exposed surface of the vertical predetermined substantially structure,

ly engage a portion of the parked vehicle disposed intermediate to second section (f) said second means, when in an operaive mode, being adapted to interlocking. and said first means, (g) said second means, when in an inoperative mode, being adapted to be in a lowered nonlocking relation with parked vehicle.

CLAIM 2

The device of claim 1 wherein

(a) the first means includes a first member fixedly mountable on the structure exposed surface and a second member slidably mounted on said first member for limited independent substantially vertical relative movement, (b) said second member being upwardly biased to assume a normal elevated rest position with respect to said first mem-ber,

(c) said second member and said second tion only when a depressive external force exerted on said second means, and third means being movable as a unit downwardly from said normal rest posiwhile the latter is retained in an operative mode, exceeds the biasing force applied to said second member

CLAIM 3

The device of claim 2 wherein

ment carried by the second member of ment carried by said second means and said first means to prevent movement of (a) the third means includes a first elecoacting with a complemental second elesaid second means from an operative mode to an inoperative mode.

The device of claim 1 wherein the third means automatically retains the second means in an operative mode

(a) the first means includes elongated The device of claim 1 wherein upright guide means,

(b) and the first section of the second means includes guide-engaging elements carried on the one end of said first section and continuously maintaining said first section in an outwardly projecting relation with respect to said first means. CLAIM 13

A releasable locking device for securing a parked vehicle to an adjacent upright structure, said device comprising

(a) a first means having a first member fixedly mountable on the structure and a relative movement, said second member second member mounted on said first member for limited substantially vertical being upwardly biased to assume a normal rest position,

(b) second means mounted on said first means for substantially vertical movement relative thereto between operative and inoperative modes,

(c) the location of said second means when in an inoperative mode being a predetermined distance beneath the location of said second means when in an operative mode,

(d) and third means for releasably retaining said second means in an operative

(e) said third means having a first element carried by the second member of said first means, and a complemental secand element carried by said second movement of said second means from an means, said first and second elements coacting with one another to prevent (f) said second means including a first section projecting outwardly from said stantially vertical path, and a second secfirst means, one end of said first section being connected to said first means and operative mode to an inoperative mode, being guided thereby for selective relative movement in a predetermined sub-

tion extending angularly upwardly from said first section and being spaced outwardly from said first means,

ly engage a portion of the parked vehicle disposed intermediate the second section (g) said second means, when in an operative mode, being adapted to interlockingand said first means,

(h) said second means, when in an inoperative mode, being adapted to be in a nonlocking relation with the parked ve-

in an operative mode, exceeds the biasing means being movable downwardly from the normal rest position only when a depressive external force exerted on said second means, while the latter is retained force applied to said second member. (i) the second member of said first

Hite's technical expert) and Mr. Erlandsson and its technical expert), the Court finds that Claims 1, 2, 3, 8, 12, and 13 of the '847 patent are infringed by Kelley's device. Upon hearing all of the evidence presented at the trial, including the expert testimony of both Professor Strait (Rite-(Kelley's Vice President of Engineering

bly slidably mounted in that frame for vertical movement between an upper operative position where it will secure the vehicle Strait as a dockwall, has a frame vertically extending up the dockwall and secured to the exposed surface of the wall, a hook assemshowed that the Kelley device, which is directed to a releasable locking device or vehicle restraint for securing a parked vehicle to an adjacent upright structure, such 74. In particular, Professor

cal hook portion, and a follower that moves in the frame between the upper operative ley device also has a means in the form of a rack and pinion which operates with a reversible motor to retain the hook in its upper operative position but to selectively permit the hook to be released to its inoper-The hook assembly of the Kelley device also has a horizontal shank portion, a vertiand lower inoperative positions. The Kelagainst the wall and a lower inoperative position free of the vehicle so that the vehicle can be driven away from the wall. ative position.

tive position. As a result, the Truk Stop will move downward when subject to the force of a truck being loaded providing downward "float." Upward float can also be accommodated by the Truk Stop unit. When the ICC bar moves upward, the motor is activated and the hook moves up with the hook from an operative to an inoperaing force in the form of a gas spring and pinion, is carried by the hook and engaged the rack to prevent accidental movement of Strait showed that the Truk Stop unit also includes a slide as a part of the fixed frame, which is urged upwardly by a biashas one part of the locking means, namely, the rack secured to it. A coacting complemental part of the retaining means, the In addition, at the trial Professor the ICC bar. 75.

amination, the following chart (PTX-136) was developed with respect to Claims 1, 2, 16. During Mr. Erlandsson's cross-ex-3, 8, and 12;

RITE-HITE CORP. v. KELLEY CO., INC. KELLEY RITE-HITE | '847 Cite as 629 F.Supp. 1042 (E.D.Wie. 1986) CLAIM PART

CLAIM PART	KELLEY	RITE-HITE COLOR	'847 PATENT	TRUK
FIRST MEANS First Member Second Member	Light Blue Dark Blue	Brown Orange	Frame Slide	Frame Slide
SECOND MEANS	Yellow	Yellow	Hook Assembly	Hook Assembly
THIRD MEANS First Element	Dark Red	Green	Pawl	Pinion & Worm
Second Element	Light Red	Purple	Ratchet	Rack
BIASING FORCE	Orange	Blue	Spring	Spring

the '847 patent claim elements and the This chart shows the direct correlation of Pruk Stop elements.

manual devices. The Court does not find 77. The Truk Stop device also has a reversible motor that is part of the retaining means. Kelley argued at the trial that its use of a rack and pinion, where the avoids infringement of the asserted claims taining the hook in an operative mode as recited in the claims did not cover the Kelley device. Kelley argued further that because a secondary objective of the Rite-Hite patent is to provide a device that does not require an electrical power source to operate, the claims are thereby limited to either of Kelley's arguments persuasive. pinion is "driven" up the rack by a motor, because the third means for releasably re-

upply the doctrine of equivalents test with 78. First, the broader claims that are asserted here are not, in any way, limited to a ratchet and pawl. In fact, "means plus function" language is used which is directed to a desired result, i.e., . "third means for releasably retaining said second means in an operative mode." During the trial, Kelley's expert witness continued to

the stated function. The rack and pinion is interchangeable with a ratchet and pawl pawl for releasably retaining the hook in its operative position. Palumbo v. Don-Joy Co., 762 F.2d 969, 976 (Fed.Cir.1985). To hold otherwise would nullify § 112. to interpret these functional claims, reference must be made to the last paragraph of 35 U.S.C. § 112. That paragraph states that the patentee is entitled to a claim covering the means described in the specification and equivalents that perform and is the clear equivalent of a ratchet and D.M.I., Inc. v. Deere & Co., 755 F.2d 1570, respect to interpreting means plus function language. This is not the proper test 1574 (Fed.Cir.1985).

scope of the "means plus function" language, is buttressed by the fact that other and pawl. To limit the broader claims, in claims in the '847 patent, which are not would go against a rational construction of 79. This finding, with respect to the asserted here, specifically recite a ratchet the way Kelley asked this Court to do, the claims. Furthermore, the claims are not limited to a manual device because only one of

many objectives set forth in the specification is to provide a device that is free of an cifically recite manual operation, and thus such a limitation cannot be read into the electrical source. Nonasserted claims speasserted claims.

Kelley device performs the same function in substantially the same way to achieve substantially the same result as the trine of equivalents. This is so because the claimed subject matter of the '847 patent. the Court finds that Kelley's device infringes the asserted claims under the doc-81. Even without literal infringement,

an infringement search beyond the six patent numbers that Kelley found listed on the infringement search to determine what patents might exist or might be infringed Kelley never obtained an opinion from its counsel on the probability or possibility of The '847 patent did not issue until almost a Rite-Hite device's serial number tags. Nor did Kelley ever cause its counsel to make by its Truk Stop restraint. Furthermore, that did not use a pivoting hook in order to year after Kelley began to market its Truk Hite patents then issued were limited to a ley proceeded to develop a truck restraint avoid conflict with the Rite-Hite patents. restraints, and Kelley received a written Stop truck restraint. Kelley never made At the time Kelley undertook the quested its patent counsel to make a search of all Rite-Hite patents dealing with truck opinion from counsel that all of the Ritepivoting hook. Based on this opinion, Keldevelopment of its truck restraint, it repatents issuing on the MDL-55. 82.

3. The Unfair Competition Claims and Counterclaims

liminarily enjoined Kelley from using its Truk-Stop promotional motion picture, that motion picture having been found to be misleading in its depiction of Kelley's and On March 16, 1984, the Court pre-Rite-Hite's truck restraining devices:

it with a film loop which is acceptable to motion picture off the market, has replaced 84. Based on the testimony of Robert Kuhns that Kelley has taken the original

this Court found misleading, the Court finds there is no need for any injunctive Rite-Hite, and has no intention of showing or using the original motion picture that relief at this time and that the preliminary injunction may be dissolved.

terclaims of unfair competition against lish any need for other injunctive relief or 85. At trial, the parties introduced evidence on their respective claims and couneach other. This evidence failed to estabmoney damages on the part of either party.

II. CONCLUSIONS OF LAW

K. Source of Applicable Law

courts, the Court of Customs and Patent Appeals and the Court of Claims. South. Corp. v. United States, 690 F.2d 1368, 1369, 215 U.S.P.Q. 657 (Fed.Cir.1982). This court has jurisdiction over the parties and the subject matter, and venue is proper. The law applicable here is that of the United States Court of Appeals for the Federal Circuit and its predecessor 86.

L. Validity of Patents

Corp. v. Computervision Corp., 732 F.2d by clear and convincing evidence on the party asserting invalidity. Perkin-Elmer 894, 221 U.S.P.Q. 669, 674 (Fed.Cir. 1984), cert. denied, — U.S. —, 105 S.Ct. P.Q. 1264, 1269 (Fed.Cir.1984). This statutory presumption of validity places the burden of proving facts establishing invalidity independently of the other claims. Jones v. 1021, 1024 (Fed.Cir.1984). Moreover, this presumption encompasses presumptions of novelty, nonobviousness, and utility-each of which are presumed to be present. Structural Rubber Products Co. v. Park Rubber Co., 749 F.2d 707, 714, 223 U.S. ent laws (35 U.S.C. § 282) explicitly states that a patent shall be presumed valid, and this presumption attaches to each claim Hardy, 727 F.2d 1524, 1528, 220 U.S.P.Q. 87. Section 282 of the United States pat 187, 83 L.Ed.2d 120 (1984). 888

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"art" consisted of the work of Rite-Hite's

development team as exemplified in Rite-

Hite's earlier patents.

88. It is a condition of patentability that the invention be nonobvious, 35 U.S.C. ent validity carries with it a presumption of Rubber § 103. The statutory presumption of pat-Structural Products Co., 749 F.2d at 714. nonobviousness.

12, and 13 of the '847 patent would not of ordinary skill in the art in the spring of 89. In Graham v. John Deere & Co., 383 U.S. 1, 17, 86 S.Ct. 684, 693-94, 15 the patent laws, that factual inquiries be made into: (1) the scope and content of the prior art; (2) the level of ordinary skill in the pertinent art at the time the invention was made; (3) the differences between the claimed invention and the prior art; and (4) objective evidence of nonobviousness, e.g., long-felt needs, commercial success, failure Perkin-Elmer Corp., 732 F.2d at 894; Jones, 727 F.2d at 1527, 1529-31; Environ-464 U.S. 1043, 104 S.Ct. 709, 79 L.Ed.2d 173 (1984). The invention of Claims 1, 2, 3, 8, have been obvious as a whole to a person ousness/nonobviousness under § 103 of of others, copying, and unexpected results. mental Designs, Ltd. v. Union Oil Co., 713 F.2d 693, 695-97, 218 U.S.P.Q. 865, L.Ed.2d 545, 148 U.S.P.Q. 469, 467 (1966), the Court mandated, in determining obvi-867-69 (Fed.Cir.1983), cert. denied,

a. The Invention As a Whole Compared to the Prior Art

to one of ordinary skill in the art to which Inc., 721 F.2d 1540, 220 U.S.P.Q. 303, 309 Ė. troduced its first Dok-Lok restraint. The that subject matter pertains at the time the this case, there was no real vehicle re-[1] 90. Section 103 requires the consideration of whether the invention would or Failure to consider the claimed invention "as a whole" would be an error of law. 732 F.2d at 894; Jones, 727 F.2d at 1529. W.L. Gore & Associates Inc. v. Garlock, would not have been obvious "as a whole' invention was made. Perkin-Elmer Corp. straint art or industry when Rite-Hite (Fed.Cir.1983), cert. denied, — U.S. — 105 S.Ct. 172, 83 L.Ed.2d 107 (1984).

determining the level of "ordinary skill in level of one of ordinary skill; (2) the types prior art solution to those problems; (4) the rapidity with which innovations are made; Not all of these factors need be considered in every case, and often one or more factors may predominate or are given more [2] 91. Factors that are considered in the art" may include: (1) the educational of problems encountered in the art; (3) the and (5) the sophistication of the technology. weight in a particular case. Environmental Designs, 713 F.2d at 696-97.

in the law for treating combinations of old elements differently in determining patent-92. Additionally, although it is proper to note the difference existing between the that difference may serve as one element in "difference" may appear to be slight, but it can be the key to success and advancement in the art. Furthermore, it is irrelevant in er aspects of the claimed invention are well since virtually every patent can be described as a "combination patent" or a F.2d at 1528. There is absolutely no basis ability. Fromson, 755 F.2d at 1555-56. claimed invention and the prior art, because ness issue, it is improper merely to considdetermining obviousness that all or all othknown, in a piecemeal manner, in the art, determining the obviousness/nonobvious-"combination" of old elements. Jones, 727 er the difference as the invention.

the desirability of the combination or the the disclosures or teachings of the prior art poses of evaluating the obviousness/nonobviousness issue does not make the combination obvious unless the art also suggested inventor's beneficial results or the advantage to be derived from combining the teachings. Fromson, 755 F.2d at 1556; In re Sernaker, 702 F.2d 989, 995-96, 217 [3] 93. Moreover, the mere fact that can be retrospectively combined for purperato, 486 F.2d 585, 587, 179 U.S.P.Q. 730, U.S.P.Q. 1, 6-7 (Fed.Cir.1983); In re

There is no such sugges-732 (CCPA 1973). tion in this case.

GMBH v. American Hoist and Derrick Cir.1984), a patent for hydraulic scrap shears was held valid and nonobvious even though it specifically stated in the specification that it disclosed and claimed a combination of features previously used in two separate prior devices. The Court ex-Co., 730 F.2d 1452, 221 U.S.P.Q. 481 (Fed. 94. In Lindemann Maschinenfabrik

known procedure operating in a known knew...that a small sidewall ram could most economically process large scrap. Nothing in the references alone or together suggests the claimed invention as a solution to the problem of crushing rigidly massive scrap. There was nothing whatever of record, therefore, to support the district, court's statement that the claimed machine possessed "another manner to produce a known result" or its conclusion that Lindemann (the inventor) Lindemann, 730 F.2d at 1462.

existence at the time of the invention, the fact remains that the combination of these elements for the purpose as set forth in the claims is nowhere suggested and is a nonobvious advance in the art of vehicle re-95. Thus, even if all the elements recited in the claims of the '847 patent were in

b. The Advance in the Art Provided by the Invention in Suit

U.S.P.Q. 744, 746-47 (Fed.Cir.1984), cert. denied, — U.S. —, 105 S.Ct. 2138, 85 sidered as part of all the evidence in all mons Fastener Corp. v. Illinois Tool Works, Inc., 739 F.2d 1573, 1575-76, 222 L.Ed. 496 (1985). In fact, such evidence of cases. In re Piasecki, 745 F.2d 1468, 1471, [4] 96. The objective evidence of nonprobative, and revealing evidence available ousness/nonobviousness issue and is of the objective considerations must be conobviousness discussed by the Court in Graham may be the most pertinent, cogent, to aid in reaching a conclusion on the obvisubstantial significance in this case. Sim-

223 U.S.P.Q. 785 (Fed.Cir.1984). These tests include:

- (1) Did the patented invention fulfill a long-felt need in the industry to which it v. American Hospital Supply Corp., 534 F.2d 89, 93, 190 U.S.P.Q. 397, 400-01 (7th Cir.1976); Rex Chainbelt, Inc. v. General Kinematics Corp., 363 F.2d 336, 337, 150 U.S.P.Q. 319, 320 (7th Cir. applied? Ortho Pharmaceutical Corp.
- (2) Did others try and fail to meet the need that the invention ultimately satisfied?
- (3) Did the patented invention meet with substantial success upon its intro-Inc., 363 F.2d at 337; Continental Can Co. v. Anchor Hocking Glass Corp., 362 F.2d 123, 124, 150 U.S.P.Q. 1, 2 (7th duction to the market? Rex Chainbelt,
- AMP, Inc. v. Molex Products Co., 329 F.Supp. 1364, 1371, 170 U.S.P.Q. 2, 7 (4) Did the accused infringer recognize hat the invention was truly meritorious? (N.D.III.1971).
- secondary considerations. Fromson, 755 an invention which appeared at first blush to have been obvious was not in view of the F.2d at 1556. When a structure such as the '847 patent goes undiscovered for years and then enjoys substantial commercial success, there is strong evidence of unobvi-97. Evidence may often establish that ousness.
- failed. Atlas Powder Co. v. E.l. DuPont de Nemours & Co., 750 F.2d 1569, 1574-76, 224 U.S.P.Q. 409 (Fed.Cir.1984); Lang v. the time Rite-Hite's claimed invention was made, no known device accomplished the Prescon Corp., 646 F.Supp. 933, 945-46, 217 U.S.P.Q. 839 (D.Del.1982); Tracor, Inc. 1306, 186 U.S.P.Q. 468 (7th Cir.1975). At solutions to dock hazards by preventing years. Rite-Hite's invention claimed in the '847 patent satisfied a long and widely-felt ers, including Kelley prior to copying, had v. Hewlett-Packard Co., 519 F.2d 1288, 98. One cannot escape the fact that the vehicle separation eluded the industry for need, and Rite-Hite succeeded where oth-

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same results in a similar manner. Rite-Hite's invention, in fact, satisfied this particular need in a unique manner. That is invention. Jones, 727 F.2d at 1531.

- 99. One of the advantages of Ritevated, operative position. The '847 patent But none of the asserted claims recite a ments coacting in a novel and unobvious manner are recited. The advantage of the as well as racks and pinion gears, were well known. This supports the unobvious-ness of the patent in suit. Jones, 727 F.2d at 1530. If anything, Kelley's reliance on fore Rite-Hite, even with the art before him, ever thought of the combination of the Hite's invention is that it uses a simple means to maintain the restraint in the elediscloses a ratchet and pawl as one means to retain the hook in its upper position. ratchet and pawl or even just hook retaining means. Rather, a combination of elecombination went unrecognized for years by the industry, though ratchets and pawls, as an automobile jack, as well as its own patent for its Panic Stop using ratchet and pawl combinations, shows that no one beearlier devices in the vehicle industry, such '847 patent.
- [5] 100. The imitation of the patented invention by an alleged infringer is strong evidence of what it thinks of the patent in suit and is persuasive of what the rest of the world ought to think. Anderson Co. v. ley's failure to develop a vehicle restraint prior to having access to Rite-Hite's vehicle restraint and Kelley's adoption of the vertically moving hook and other elements Sears, Roeduck & Co., 165 F.Supp. 611, 623, 119 U.S.P.Q. 236, 244 (N.D.III.1958), 121 U.S.P.Q. 161 (7th Cir.1959). Here, Kelclaimed in the '847 patent provide additional evidence of unobviousness. Lang, 545 F.Supp. at 945-46. In fact, Kelley's vehicle spected, disassembled, and photographed modified on other grounds 265 F.2d 755, restraint, which was identified by Kelley's personnel as "Kelley's version of the Dok-Lok" (PTX-36), was nonexistent until Kelley obtained literature relating to Rite-Hite's vehicle restraint and actually inthe Rite-Hite product. General Monitors,

deed, the imitation and copying by Kelley Ackermans v. General Motors Corp., 202 F.2d 642, 645, 96 U.S.P.Q. 281 (4th Cir. 1953), cert. denied, 345 U.S. 996, 73 S.C. Inc. v. Mine Safety Appliances Co., 211 U.S.P.Q. 1126, 1140 (C.D.Cal.1981). Inwas strong evidence that Kelley believed that invention lay in the Rite-Hite product. 1139, 97 L.Ed. 1403 (1953).

cial success. Rite-Hite has sold well over There is no question that a substantial ness was the evidence that Rite-Hite's in-1,800 MDL-55 restraints falling within the cause of this commercial success is the claimed configuration. Fromson, 755 F.2d 101. A further indicium of nonobviousvention has also had considerable commerasserted claims of the '847 patent (PTX 81). at 1556-58; Magnavox Company v. Chicago Dynamic Industries, 201 U.S.P.Q. 25, 27 (N.D.III.1977).

- N. The Prior Art Does Not Show the Claimed Invention
- a party must demonstrate identity of invenclaim is anticipated under 35 U.S.C. § 102, 713 F.2d 760, 771 (Fed.Cir.1983), cert. denied, 465 U.S. 1026, 104 S.Ct. 1284, 79 § 102 is a factual determination. Linde-(6,7] 102. To assert that a patent L. Ed. 2d 687 (1984). The determination that a claimed invention is "anticipated" under mann Maschinenfabrik GMBH v. Amerition. Kalman v. Kimberly-Clark Corp., can Hoist & Derrick Co., 730 F.2d 1452 1458 (Fed.Cir.1984).
- the claimed invention was previously nenfabrik GMBH, 730 F.2d at 1458. "Unless all of the same elements are found in described or implicitly described under appropriate principles of inherency, in a sindevice or practice. Lindemann Maschi-[8] 103. One who seeks such a finding of anticipation must show that each and every element of the patent claim is found as arranged in the claim, either expressly gle prior art reference, or that the claimed invention was previously known or embodied in a single prior art reference, or that known or embodied in a single prior art exactly the same situation and united in the

denied, — U.S. —, 105 S.Ct. 2345, 85 same way to perform an identical function, there is no anticipation." National Business Systems, Inc. v. AM International. 546 F.Supp. 340, 350 (N.D.III.1982), affd, 743 F.2d 1227 (7th Cir.1984), cert. L.Ed.2d 861 (1985).

0. Kelley's Infringement of the '847 Pat-

extends to infringement under the doctrine ment. Hughes Aircraft Co. v. United [9] 104. The United States patent laws makes, uses, or sells any patented invention within the United States during the U.S.C. § 271(a). The patent owner has the ponderance of the evidence. This burden of equivalents as well as to literal infringestate that whoever without authority term of the patent infringes the patent. 35 burden of proving infringement by a pre-States, 717 F.2d 1351, 1361, 219 U.S.P.Q. 473 (Fed.Cir.1983)

first is a question of law; the second is a question of fact. SSIH Equipment S.A. v. raises at least two questions: (1) what is been made, used, or sold by another. The P.Q. 1137, 1140 (Fed.Cir.1983). In this case, Rite-Hite obtained a patent claiming a The Truk Stop device, made and sold by patented,2 and (2) has what is patented 718 F.2d 365, 376, 218 U.S.P.Q. 678, 688 vehicle restraint having a combination of elements performing recited functions. (Fed.Cir.1983); Fromson v. Advance Offset [10, 11] 105. The issue of infringement U.S. International Trade Commission, Plate, Inc., 720 F.2d 1565, 1569, 219 U.S. Kelley, infringes the asserted claims.

a. Literal Infringement

[12] 106. If an allegedly infringing product falls literally within the claim when the words are given their proper meaning, infringement is made out, and that is the Co. v. Linde Air Products Co., 339 U.S. end of the inquiry. Graver Tank and Mfg.

2. In a patent infringement action, patent claims measure the invention and define the boundaries of patent protection. Reese v. Elkharr

605, 607, 70 S.Ct. 854, 855-56, 94 L.Ed. 1097, 85 U.S.P.Q. 328 (1950).

claims of a patent are to be construed in light of the specification, and both are to be 49, 86 S.Ct. 708, 713, 15 L.Ed.2d 572, 148 ment is resolved by comparing the accused with the structure described in the patent or the patentee's commercial device. Martin v. Barber, 755 F.2d 1564, 1567, 225 U.S.P.Q. 233, 235 (Fed.Cir.1985). The read with a view to ascertaining the invention. United States v. Adams, 383 U.S. 39, U.S.P.Q. 479, 482 (1966). Each claim must be considered as defining a separate invention. Jones, 727 F.2d at 1528. In construing or interpreting a claim, a whole host of facts (e.g., patent disclosure, the prosecution history in the Patent and Trademark Office, the prior art and comparison with 383 U.S. at 32-33, 86 S.Ct. at 701; From-[13-15] 107. The question of infringedevice with the claims of the patent, not other claims) may be considered. Graham, son, 720 F.2d at 1569-71.

(1) "Means Plus Function" Claims

the '847 patent utilize "means plus function" language. Title 35 U.S.C. § 112 is [16] 108. The independent claims in used to interpret these functional claims and states:

An element in a claim for a combination performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding may be expressed as a means or step for structure, material or acts described in the specification and equivalents thereof. Emphasis added.]

To interpret the statute as limited to a tion would be to nullify that provision of means the structure described in the speciparticular means set forth in the specifica-§ 112. The patentee's claim covers all combinations which utilize as the stated fication for performing the stated function and also all combinations that utilize any

Welding & Boiler Works Inc., 447 F.2d 517, 171 U.S.P.Q. 129 (7th Cir.1971).

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structure which is the equivalent of that described structure insofar as it performs the stated function. D.M.I., Inc. v. Deere The Court in Palumbo v. Don Joy Co., 762 F.2d 969, 975 (Fed.Cir. May 20, 1985), rec-& Co., 755 F.2d 1570, 1574 (Fed.Cir.1985)

ognized that a "means plus function" claim is construed "to cover both the disclosed structure and equivalents thereof" for performing the stated function. The Court in

Palumbo added that an important factor in the determination of equivalents is whether persons reasonably skilled in the art would know of the interchangeability of an ingredient not contained in the patent with one that was. Palumbo, at 977.

the language of the claim, (2) the patent specification, (3) the prosecution history of the patent, (4) other claims in the patent, [17, 18] 109. In construing such a claim, and (5) expert testimony. Once these factors are weighed, the scope of the alent of the described embodiment is a Here, looking to the prosecution history of a number of factors may be considered: (1) "means" claim may be determined, and whether the Kelley device is a § 112 equivquestion of fact. Palumbo, at 975-76. the '847 patent, the amendments to the claims and description following the citation of the Taylor, et al., patent makes it clear that the scope of equivalents for the third means is broad.

[19] 110. In addition, Kelley cannot escape infringement by the mere fact that its Truk Stop restraint is more or less efficient Corp. v. Envirotech Corp., 730 F.2d 1476, 1481-82, 221 U.S.P.Q. 649, 653 (Fed.Cir. or performs additional functions or adds features or is an improvement. Amstar (1984); Radio Steel & Manufacturing Co. v. MTD Products, Inc., 731 F.2d 840, 848, 221 U.S.P.Q. 657 (Fed.Cir. 306, 224 U.S. than the subject matter Rite-Hite claimed, 83 L.Ed.2d 240, 224 U.S.P.Q. 616 840, 848, 221 U.S.P.Q. 657 (Fed.Cir.1984), cert. denied, — U.S. —, 105 S.Ct. 119, 1984), cert. denied, - U.S. -, 105 S.Ct. P.Q. 616 (1984); Radio Steel & Manufacturing Co. v. MTD Products, Inc., 731 F.2d 83 L.Ed.2d 62 (1984); Atlas Powder Co.,

of Rite-Hite's patent limit the invention to a 760 F.2d at 1579-81. Nothing in the claims manual device or one with communications apparatus.

claims asserted here cannot be construed to be limited to a ratchet and pawl as the This law is applicable here because Claims 5, 6, and 7 of the '847 patent, which are not [20] 111. Furthermore, the broader "third means," or to manual operation. and 9 recite manual operation. These narrow claim limitations cannot be read into asserted, recite that the third means includes a ratchet and pawl, and Claims 4 the broader claims to avoid infringement. D.M.I., 755 F.2d at 1574.

b. Doctrine of Equivalents

[21, 22] 112. Kelley cannot avoid a finding of infringement by arguing that its device falls outside a literal reading of the claims of the '847 patent. Although the claims of a patent are the measure of the Graver Tank and My. Co. v. Linde Air Products Co., 339 U.S. 605, 608, 70 S.Ct. "doctrine of equivalents" adds latitude and breadth to the application of claim lan-854, 856, 94 L.Ed. 1097, 85 U.S.P.Q. 328 signed to protect a patentee, such as Riteprotected invention, the judicially created guage in order to prevent the infringer from perpetrating "a fraud on a patent," (1950). The doctrine of equivalents is dewho appropriates the invention even if the infringer avoids the literal language of the Hite, from an infringer, such as Kelley, claims. As such, a finding of infringement is in order here because Kelley's device performs the same function in substantially the same way to achieve substantially the same result as the claimed invention. Attary Refrigerator Co. v. Winters, 280 U.S. 30, 42, 50 S.Ct. 9, 13, 74 L.Ed. 147 (1929); Graver Tank, 339 U.S. at 607, 70 S.Ct. at 855-56. Under this doctrine, Rite-Hite's claims are infringed by Kelley's imitation even if Kelley did not precisely clone every las Powder Co., 750 F.2d at 1579–81; Saniiteral detail of Rite-Hite's claimed inven-

The range of equivalents to which a patent claim is entitled is on a sliding scale depending on the nature of the nvention. John Zink Co. v. National Aitoil Burner Co., 613 F.2d 547, 555, 205 U.S.P.Q. 494 (5th Cir.1980); Julien v. Gomez & Andre Tractor Repairs, Inc., 438 F.Supp. 763, 766, 196 U.S.P.Q. 224 (M.D.La. 1977), aff'd, 607 F.2d 1004 (5th Cir.1979). In particular, when a patented invention has had "significant commercial success" or the patent is of the "pioneer type," the 713, 720 (N.D.III.1970); Chicago Patent Cir.1941). The broadest protection is given one of such novelty and importance as to 483 F.2d 858, 870, 177 U.S.P.Q. 481 (5th Cir.1973), cert. denied, 414 U.S. 1079, 94 that functions in a novel manner, unlike patent claims are to be construed liberally and are not to be limited to the identical means and mode of operation shown in the patent. Graver Tank, 339 U.S. at 608-09, 70 S.Ct. at 856; King-Seeley Thermos Co. v. Reynolds Products, Inc., 322 F.Supp. Corp. v. Genco, Inc., 124 F.2d 725, 728 (7th to "a patent covering a function never before performed, a wholly novel device, or mark a distinct step in the progress of the art." Ziegler v. Phillips Petroleum Co., S.Ct. 597, 38 L.Ed.2d 485, 180 U.S.P.Q. 1 (1973). The Rite-Hite patent is a pioneer patent because it claims a vehicle restraint any of the earlier restraints of Rite-Hite or [23, 24] 113.

consist of a combination of old ingredients [25, 26] 114. Broad protection is given not only to so-called pioneer patents, but bution to an existing art and patents that Graver Tank, 339 U.S. at 608, 70 S.Ct. at 856; Julien, 438 F.Supp. at 766. Accordingly, the claims of a patent are entitled to a range of equivalents commensurate with the scope of the invention. Ziegler, 483 F.2d at 869. In this instance, because of the significant advance in the art presented by the Rite-Hite '847 patent and the manifest commercial success, the claims are givthat produce new and useful results. also patents that make a substantial contrien the broadest possible interpretation.

tion. Hughes Aircraft Co., 717 F.2d at 1365-66; Atlas Powder Co., 750 F.2d at 1579-81; Bendix Corp. v. United States, 600 F.2d 1364, 1382, 220 Ct.Cl. 507, 204 Kelley of a component that may be more cific embodiment of the Rite-Hite patent does not allow Kelley to escape an appropriate range of equivalents and thereby [27] 115. In addition, the mere use by sophisticated than that disclosed in the speavoid infringement of the claimed inven-U.S.P.Q. 617, 631 (1979).

Rite-Hite's Right to Recover Prejudgment Interest

[28] 116. In addition to the other relief the patentee should recover prejudgment interest as provided in 35 U.S.C. § 284 in the benefit of the use of the money which it recoverable for infringement of its patent, order to prevent the infringer from having would have been paying in royalties. General Motors Corp. v. Devex Corp., 461 U.S. 648, 103 S.Ct. 2058, 76 L.Ed.2d 211 (1983) [29] 117. The asserted claims of the '847 patent are not invalid and are infringed by Kelley by making and selling the Truk Stop vehicle restraint.

Control of the Contro

Multiplied Damages and Attorneys' Fees Are Not Warranted

118. Under 35 U.S.C. § 284, multiplied found or assessed may be awarded by the Court. Kelley's activities here do not wardamages up to three times the amount rant such an award.

anyone else.

119. The activities of Kelley and the circumstances of this case are not sufficiently exceptional to prompt an award of attorneys' fees under 35 U.S.C. § 285.

STAY OF EXECUTION

[30] 120. Kelley has moved for a stay of injunction pending appeal. The motion is technically premature because a notice of appeal has not yet been filed, but the Court has the authority to grant a stay conditioned on the movant's filing of a notice of appeal within a specified period.

SAUNDERS V. STATE OF N.Y.

Cite as 629 F.Supp. 1067 (N.D.N.Y. 1986)

Edgar SAUNDERS, Plaintiff,

the Court may in its discretion suspend a pending appeal can show: (1) that it is to the litigation; and (4) that a stay is in the public interest. Adams v. Walker, 488 837, 844 (E.D.Wis.1980). A showing of abon appeal need not be made if the injunceral Bureau of Investigation, 595 F.2d 889 likely to prevail on the merits on appeal; (2) that unless a stay is granted it will suffer irreparable injury; (3) that a stay would not substantially harm other parties F.2d 1064, 1065 (7th Cir.1973); Decker v. U.S. Department of Labor, 485 F.Supp. solute probability of success on the merits tion would destroy the status quo, irreparably harming the appellant, and granting of the stay will cause only slight harm to the appellee. Providence Journal Co. v. Fed-Under Fed.R.Civ.P. 62(c), final judgment granting an injunction if the party seeking suspension of the judgment

ley which has been submitted in camera, I [33] 122. Upon consideration of the foregoing factors and the affidavit of Kelconclude that a stay of the injunction without bond should be allowed pending Kelley's appeal.

claimed vehicle restraint pursuant to 35 U.S.C. § 283, and that Kelley is liable to cers, employees, agents, and those in privi-IT IS THEREFORE ORDERED that the ty with them are enjoined from infringing trademark Truk Stop and embodying the the plaintiffs for damages, including preudgment interest, as a result of its indefendant Kelley Company, Inc., its offi-U.S. Patent 4,373,847 by the manufacture or sale of vehicle restraints sold under the fringement.

ther, this stay shall expire within thirty days of the filing date of this decision and order unless a notice of appeal is filed IT IS FURTHER ORDERED that Kelley's motion for a stay of the above-described injunction pending appeal is granted pursuant to Fed.R.Civ.P. 62(c), but furwithin that period.

dividually and in his capacity as an investigator in the Rensselaer County investigator in the Rensselaer County the State of New York and Various York, the County of Rensselaer, the ment, Eugene Eaton, Individually and County, Robert Krogh, individually and in his capacity as Under-Sheriff of Sheriff's Department, William Pokeda, individually and in his capacity as an ees of the Rensselaer County Sheriff's Department, Who are at this Time, Unknown, individually and in their offi-Richard Crist, individually and in his York, Michael Cryan, individually and in his capacity as an investigator in the Division of State Police of the State of New York, Gerald Looney, individually Employees of the Division of State Po-Division of State Police of the State of The STATE OF NEW YORK, the Division of State Police of the State of New Rensselaer County Sheriff's Departin his capacity as Sheriff of Rensselaer Rensselaer County, Emmanuel Ned, In-Sheriff's Department, Various Employcial capacities as members of the Rensselaer County Sheriff's Department, capacity as an investigator in the Division of State Police of the State of New and in his official capacity as an employee of the Division of State Police of lice of the State of New York, individually and in their official and/or supervisorial capacities as employees of the

No. 85-CV-393.

New York, Defendants.

United States District Court, N.D. New York.

claims arising out of a state criminal case Upon a motion to dismiss § 1983

March 5, 1986.

mission abuses its discretion by declining to release the bond merely because of sales by a respondent of goods known to the complainant at the time of the agreement. ant as well as the public interest, the Com-

Biocraft also makes other arguments which we need not address.

CONCLUSION

The Commission's denials of Biocraft's posted pursuant to the Temporary Cease requests for return or cancellation of bonds were an abuse of discretion. Its order is and Desist Order issued January 10, 1990, therefore .

REVERSED



In re Mark A. VAECK, Wipa Chungjatupornchai and Lee McIntosh.

No. 91-1120.

United States Court of Appeals, Federal Circuit.

Oct. 21, 1991.

Inventor sought patent for claimed indal proteins. The United States Patent and Trademark Office Board of Patent Appeals and Interferences affirmed an examiner's ing techniques for production of insecticirejection of certain claims, and appeal was taken. The Court of Appeals, Rich, Circuit Judge; held that: (1) patent application was vention directed to use of genetic engineer improperly rejected on ground of prima tion was properly rejected to extent that claims were too general to enable person facie obviousness, and (2) patent applicaskilled in art to make and use claimed invention without undue experimentation.

Affirmed in part, reversed in part.

Mayer, Circuit Judge, dissented and filed opinion.

1. Patents \$314(5)

court independently reviews, though based upon Patent and Trademark Office's under-Obviousness of invention for which patent is sought is legal question which lying factual findings, which court reviews under clearly erroneous standard. 35 U.S.C.A. § 103.

2. Patents ⇔16(2)

patent as obvious in view of combination of prior art references, court considers whether prior art would have suggested to those of ordinary skill in art that they should In reviewing rejection of invention for make claimed composition or device, or carry out claimed process, and whether prior art would also have revealed that in so making or carrying out, those of ordinary skill would have reasonable expectation of success; both suggestion and reasonable expectation of success must be found in prior art, not in applicant's disclosure. 35 U.S.C.A. § 103.

3. Patents ⇔16.25

neering techniques for production of insecticidal proteins was improperly rejected on ground of prima facie obviousness; prior art did not disclose or suggest expression in cyanobacteria of chimeric gene encoding insecticidally active protein, or convey to Patent application for genetic engithose of ordinary skill reasonable expectation of success in doing so. 35 U.S.C.A.

4. Patents 599

ent must enable any person skilled in art to To be patentable, specification of patwhich it pertains to make and use claimed invention without undue experimentation. 35 U.S.C.A. § 112.

5. Patents 0099

Patent application for using genetic engineering techniques to produce insecticidal proteins was properly rejected to extent that claims were too general to enable person skilled in art to make and use claimed invention without undue experimentation;

Cite as 947 F.2d 488 (Fed. Cir. 1991) IN RE VAECK

claim referred to use of cyanobacteria in general as host organism, despite fact that cyanobacteria were diverse and relatively poorly studied group of organisms, com-prising some 150 different genera, with successful use of any one type in manner called for in invention being unpredictable. 35 U.S.C.A. § 112.

6. Patents 099

be sufficient disclosure, either through iland how to use invention as broadly as it is Although patent applicants are not required to disclose every species encomdictable art, in order to satisfy enablement requirement for patentability, there must lustrative examples or terminology, to passed by their claims, even in unpreteach those of ordinary skill how to make claimed. 35 U.S.C.A. § 112.

lan C. McLeod, Ian C. McLeod, P.C., Okernos, Mich., argued for appellant. Teddy S. Gron, Associate Sol., Office of the Sol, of Arlington, Va., argued for appellee. With him on the brief were Fred E. McKelvey, Sol. and Richard E. Schafer, Associate Sol.

Before RICH, ARCHER, and MAYER, Circuit Judges.

RICH, Circuit Judge.

March 4, 1987, titled "Hybrid Genes Incorporating a DNA Fragment Containing a as a Biocontrol Agent" as unpatentable application Serial No. 07/021,405, filed Office (PTO) Board of Patent Appeals and interferences (Board), affirming the exam-Gene Coding for an Insecticidal Protein, pressing Such Protein and Method for Use inder 35 U.S.C. § 103, as well as the rejec-This appeal is from the September 12, 1990 decision of the Patent and Trademark ner's rejection of claims 1-48 and 50-52 of Plasmids, Transformed Cyanobacteria Ex-

- cloning and expression have been described in *In re O'Farrell*, 853 F.2d 894, 895-99, 7 U.S.P.O.2d 1673, 1674-77 (Fed.Cir.1988), and 1. Basic vocabulary and techniques for gene are not repeated here.
- 2. All living cells can be classified into one of two broad groups, procaryotes and eucaryotes,

U.S.C. § 112, first paragraph, for lack of enablement. We reverse the § 103 rejection of claims 1-48 and 50-51 under 35 tion. The § 112 rejection is affirmed in part and reversed in part.

, , , ,

BACKGROUND

A. The Invention

dal Bacillus proteins over swamps. The however, and would often sink to the botcost method of producing the insecticidal black flies. These swamp-dwelling pests that certain species of the naturally-occurring Bacillus genus of bacteria produce proteins ("endotoxins") that are toxic to spores were environmentally unstable, thus rendering this method prohibitively Bacillus proteins in high volume, with ap-The claimed invention is directed to the use of genetic engineering techniques 1 for production of proteins that are toxic to insects such as larvae of mosquitos and are the source of numerous human health problems, including malaria. It is known these insects. Prior art methods of combatting the insects involved spreading or spraying crystalline spores of the insecticitom of a swamp before being consumed, expensive. Hence the need for a lowerolication in a more stable vehicle.

on top of swamps where they are coning for the production of the insecticidal Bacillus proteins within host cyanobacteria. Although both cyanobacteria and bacdom, the cyanobacteria (which in the past gae") are unique among procaryotes in that photosynthesis. The cyanobacteria grow sumed by mosquitos and black flies. Thus, As described by appellants, the claimed have been referred to as "blue-green althe cyanobacteria are capable of oxygenic when Bacillus proteins are produced withsubject matter meets this need by providteria are members of the procaryote 2 kingThe procaryotes comprise organisms formed of cells that do not have a distinct nucleus; their DNA floats throughout the cellular cytoplasm. In contrast, the cells of eucaryotic organisms algae and yeast have a distinct nucleus wherein their DNA resides. such as man, other animals, plants, protozoa,

in transformed ³ cyanobacterial hosts according to the claimed invention, the presence of the insecticide in the food of the targeted insects advantageously guarantees direct uptake by the insects.

More particularly, the subject matter of the application on appeal includes a chimeric (i.e., hybrid) gene comprising (1) a gene derived from a bacterium of the Bacillus genus whose product is an insecticidal protein, united with (2) a DNA promoter effective for expressing 4 the Bacillus gene in a host cyanobacterium, so as to produce the desired insecticidal protein.

The claims on appeal are 1-48 and 50-52, all claims remaining in the application. Claim 1 reads:

- A chimeric gene capable of being expressed in Cyanobacteria cells comprising:
- (a) a DNA fragment comprising a promoter region which is effective for expression of a DNA fragment in a Cyanobacterium; and
- (b) at least one DNA fragment coding for an insecticidally active protein produced by a Bacillus strain, or coding for an insecticidally active truncated form of the above protein or coding for a protein having substantial sequence homology to the active protein,

the DNA fragments being linked so that the gene is expressed.

Claims 2-15, which depend from claim 1, recite preferred Bacillus species, promoters, and selectable markers.⁶ Independent claim 16 and claims 17-31 which depend therefrom are directed to a hybrid plasmid vector which includes the chimeric gene of claim 1. Claim 32 recites a bacterial strain. Independent claim 33 and claims 34-48 which depend therefrom recite a cyanobac.

- 3. "Transformed" cyanobacteria are those that have successfully taken up the foreign Bacillus DNA such that the DNA information has become a permanent part of the host cyanobacteria, to be replicated as new cyanobacteria are generated.
- 4. "Expression" of a gene refers to the production of the protein which the gene encodes; more specifically, it is the process of transferring information from a gene (which consists of

terium which expresses the chimeric gene of claim 1. Claims 50-51 recite an insecticidal composition. Claim 52 recites a particular plasmid that appellants have deposit

B. Appellants' Disclosure

In addition to describing the claimed invention in generic terms, appellants' specification discloses two particular species of Bacillus (B. thuringiensis, B. sphaericus) as sources of insecticidal protein; and nine genera of cyanobacteria (Synechocystis, Anacystis, Synechococcus, Agmenellum, Aphanocapsa, Gloecapsa, Nostoc, Anabaena and Ffremyllia) as useful hosts.

The working examples relevant to the claims on appeal detail the transformation of a single strain of cyanobacteria, i.e., Synechocystis 6803. In one example, Synechocystis 6803 cells are transformed with a plasmid comprising (1) a gene encoding a particular insecticidal protein ("B.t. 8") from Bacillus thuringiensis var. israelensis, linked to (2) a particular promoter, the P. promoter from the bacteriophage Lambda (a virus of E. coli). In another example, a different promoter, i.e., the Synechocystis 6803 promoter for the rubisco operon, is utilized instead of the Lambda P. promoter.

C. The Prior Art

A total of eleven prior art references were cited and applied, in various combinations, against the claims on appeal.

The focus of Dzelzkalns,⁶ the primary reference cited against all of the rejected claims, is to determine whether chloroplast promoter sequences can function in cyanobacteria. To that end Dzelzkalns discloses the expression in cyanobacteria of a chimeric gene comprising a chloroplast promot-

DNA) via messenger RNA to ribosomes where a specific protein is made.

- 5. In the context of the claimed invention, "selectable markers" or "marker genes" refer to antibiotic-resistance conferring DNA fragments, attached to the gene being expressed, which facilitate the selection of successfully transformed cyanobacteria.
- 6. 12 Nucleic Acids Res. 8917 (1984).

er sequence fused to a gene encoding the enzyme chloramphenicol acetyl transferase not (CAT). Importantly, Dzelzkalns teaches for the use of the CAT gene as a "marker" rogene; this use of antibiotic resistance-con-loss ferring genes for selection purposes is a por common technique in genetic engineering.

Sekar I,* Sekar II,* and Ganesan 10 collectively disclose expression of genes encoding certain Bacillus insecticidal proteins in the bacterial hosts B. megaterium, B. subtilis and E. coli.

Friedberg 11 discloses the transformation of the cyanobacterium Anacystis nidulans R2 by a plasmid vector comprising the erature-sensitive repressor gene of the bac-OLPL operator-promoter region and a tempteriophage Lambda. While the cyanobacteria are attractive organisms for the cloning of genes involved in photosynthesis, Friedberg states, problems may still be encountered such as suboptimal expression of the growth of overexpressed, highly hydrophobic proteins, and rapid turnover of some Lambda regulatory signals in plasmid vehicles which, it states, have "considerable potential for use as vectors the expression cloned gene, detrimental effects on cell gene products. To address these problems, Friedberg teaches the use of the disclosed of which can be controlled in Anacys-

Miller 12 compares the initiation specificities in vitro of DNA-dependent RNA polymerases 13 purified from two different species of cyanobacteria (Fremyella diplosiphon and Anacystis nidulans), as well as from E. coli.

- 7. Chloramphenicol is an antibiotic; CAT is an enzyme which destroys chloramphenicol and thus imparts resistance thereto.
- 8. 137 Biochem. and Biophys. Res. Comm. 748 (1986).
- 9. 33 Gene 151 (1985).
- 10. 189 Mol. Gen. Genet. 181 (1983).
- 11. 203 Mol. Gen. Genet. 505 (1986).
 - .12. 140 J. Bacteriology 246 (1979).
- 13. RNA polymerase, the enzyme responsible for making RNA from DNA, binds at specific nucleotide sequences (promoters) in front of genes

IN RE VAECK Cite 24 947 F.2d 488 (Fed. Cir. 1991)

* **

Nierzwicki-Bauer " identifies in the cyanobacterium Anabaena 7120 the start site for transcription of the gene encoding rbcL, the large subunit of the enzyme ribulose-1,5-bisphosphate carboxylase. It reports that the nucleotide sequence 14-8 base pairs preceding the transcription start site "resembles a good Escherichia coli promoter," but that the sequence 35 base pairs before the start site does not.

Chauvat ¹⁶ discloses host-vector systems for gene cloning in the cyanobacterium Synechocystis 6803, in which the antibiotic resistance-conferring neo gene is utilized as a selectable marker.

Reiss 16 studies expression in E. coli of various proteins formed by fusion of certain foreign DNA sequences with the neogene.

Kolowsky ¹¹ discloses chimeric plasmids designed for transformation of the cyanobacterium Synechococcus R2, comprising an antibiotic-resistant gene linked to chromosomal DNA from the Synechococcus cyanobacterium.

Barnes, United States Patent No. 4,695,455, is directed to the treatment with stabilizing chemical reagents of pesticides produced by expression of heterologous genes (such as those encoding Bacillus proteins) in host microbial cells such as Pseudomonas bacteria. The host cells are killed by this treatment, but the resulting pesticidial compositions exhibit prolonged toxic activity when exposed to the environment of target pests.

in DNA, and then moves through the gene making an RNA molecule that includes the information contained in the gene. Initiation specificity is the ability of the RNA polymerase to initiate this process specifically at a site(s) on the DNA template.

- 14. 81 Proc. Natl. Acad. Sci. USA 5961 (1984).
- 204 Mol. Gen. Genet. 185 (1986).
- . 30 Gene 211 (1984).
- 17. 27 Gene 289 (1984).

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D. The Grounds of Rejection

1. The § 103 Rejections

transformed host of Dzelzkalns differ from larger quantities of the protein. The examiner contended that it would have been obvious to one of ordinary skill in the art to gene in the vectors of Dzelzkalns in order lus genes in the transformed cyanobacteria. The examiner further contended that bacteria as heterologous hosts for expresof cyanobacteria to serve as transformed hosts for the expression of heterologous under 35 U.S.C. § 103 based upon and Ganesan. The examiner stated that the claimed invention in that the former's structural gene encodes CAT rather than genes in heterologous 18 hosts to obtain substitute the Bacillus genes taught by Sekar I, Sekar II, and Ganesan for the CAT to obtain high level expression of the Bacilit would have been obvious to use cyanosion of the claimed genes due to the ability Claims 1-6, 16-21, 33-38, 47-48 and 52 (which include all independent claims in the application) were rejected as unpatentable Dzelzkalns in view of Sekar I or Sekar II ble of being highly expressed in a cyanobacterium, said gene comprising a promoter region effective for expression in a cyanobacterium operably linked to a structural gene encoding CAT. The examiner acknowledged that the chimeric gene and insecticidally active protein. However, the and Ganesan teach genes encoding insectilus, and the advantages of expressing such Dzelzkalns discloses a chimeric gene capa examiner pointed out, Sekar I, Sekar II cidally active proteins produced by Bacil

18. Denotes different species or organism.

genes. In the absence of evidence to the

 MPEP 706.03(n), "Correspondence of Claim and Disclosure," provides in part: In chemical cases, a claim may be so broad as to not be supported by [the] disclosure, in which case it is rejected as unwarranted by the disclosure.....

o. MPEP 706.03(z), "Undue Breadth," provides

(I)n applications directed to Inventions in arts where the results are unpredictable, the disclosure of a single species usually does not powid an adequate basis to support generic claims. In re Sol, 1938 C.D. 723, 497 O.G.

contrary, the examiner contended, the invention as a whole was prima facie obvious.

Additional rejections were entered against various groups of dependent claims which we need not address here. All additional rejections were made in view of Dzelzkalns in combination with Sekar I, Sekar II, and Ganesan, and further in view of other references discussed in Part C above.

The Board affirmed the § 103 rejections, basically adopting the examiner's Answer as its opinion while adding a few comments. The legal conclusion of obviousness does not require absolute certainty, the Board added, but only a reasonable expectation of success, citing In re O'Farrell, 853 F.24 894, 7 U.S.P.Q.24 1673 (Fed. Cir.1988). In view of the disclosures of the prior art, the Board concluded, one of ordinary skill in the art would have been motivated by a reasonable expectation of success to make the substitution suggested by the examiner.

2. The § 112 Rejection

The examiner also rejected claims 1-48 and 50-51 under 35 U.S.C. § 112, first paragraph, on the ground that the disclosure was enabling only for claims limited in accordance with the specification as filed. Citing Manual of Patent Examining Procedure (MPEP) provisions 706.03(n) ¹⁹ and (2) ²⁰ as support, the examiner took the position that undue experimentation would be required of the art worker to practice the claimed invention, in view of the unpredictability in the art, the breadth of the claims, the limited number of working examples and the limited guidance provided

346. This is because in arts such as chemistry it is not obvious from the disclosure of one species what other species will work. In re Dreshfield, 1940 C.D. 351; 518 0.G. 258 gives this general rule: "It is well settled that in cases involving chemicals and chemical compounds, which differ radically in their properties it must appear in an applicant's specification either by the enumeration of a sufficient number of the members of a group or by other appropriate language, that the chemical combinations included in the claims are capable of accomplishing the desired result."

Cite as 947 F.2d 488 (Fed. Cir. 1991) in the specification. With respect to un- a reasonable predictability, the examiner stated that In re Dow

[t]he cyanobacteria comprise a large and diverse group of photosynthetic bacteria including large numbers of species in some 150 different genera including Synechocystis, Anacystis, Synechococcus, Agmenellum, Nostoc, Anabaena, etc. The molecular biology of these organisms has only recently become the subject of intensive investigation and this work is limited to a few genera. Therefore the level of unpredictability regarding heterologous gene expression in this large, diverse and relatively poorly studied group of procaryotes is high...

The Board affirmed, noting that "the limited guidance in the specification, considered in light of the relatively high degree of unpredictability in this particular art, would not have enabled one having ordinary skill in the art to practice the broad scope of the claimed invention without undue experimentation. In re Fisher, 427 F.2d 833, 166 U.S.P.Q. 18 (CCPA 1970)."

OPINION

Obviousness

erred in rejecting the claims on appeal as prima facie obvious within the meaning of 35 U.S.C. § 103. Obviousness is a legal question which this court independently reviews, though based upon underlying factual findings which we review under the clearly erroneous standard. In re Woodruff, 919 F.2d 1575, 16 U.S.P.Q.2d 1934, 1935 (Fed.Cir.1990).

[2] Where claimed subject matter has been rejected as obvious in view of a combination of prior art references, a proper analysis under § 103 requires, inter alia, consideration of two factors: (1) whether the prior art would have suggested to those of ordinary skill in the art that they should make the claimed composition or device, or carry out the claimed process; and (2) whether the prior art would also have revealed that in so making or carrying out, those of ordinary skill would have

a reasonable expectation of success. See In re Dow Chemical Co., 837 F.2d 469, 473, 5 U.S.P.Q.2d 1529, 1531 (Fed.Cir.1988). Both the suggestion and the reasonable expectation of success must be founded in the prior art, not in the applicant's disclosure. Id

[3] We agree with appellants that the PTO has not established the prima facie The prior art simply does not disclose or nary skill a reasonable expectation of succeins for the CAT gene utilized for selection purposes. The expression of antibiotic resistance-conferring genes in cyanobacteria, without more, does not render obvious obviousness of the claimed subject matter. suggest the expression in cyanobacteria of a chimeric gene encoding an insecticidally active protein, or convey to those of ordicess in doing so. More particularly, there is no suggestion in Dzelzkalns, the primary reference cited against all claims, of substituting in the disclosed plasmid a structural gene encoding Bacillus insecticidal prothe expression of unrelated genes in cyanobacteria for unrelated purposes.

The PTO argues that the substitution of insecticidal Bacillus genes for CAT marker genes in cyanobacteria is suggested by the secondary references Sekar I, Sekar II, and Ganesan, which collectively disclose expression of genes encoding Bacillus insecticidal proteins in two species of host Bacillus bacteria (B. megaterium and B. subtilis) as well as in the bacterium E. coli. While these references disclose expression of Bacillus genes encoding insecticidal proteins in certain transformed bacterial hosts, nowhere do these references disclose or suggest expression of such genes in transformed cyanobacterial hosts.

To remedy this deficiency, the PTO emphasizes similarity between bacteria and cyanobacteria, namely, that these are both procaryotic organisms, and argues that this fact would suggest to those of ordinary skill the use of cyanobacteria as hosts for expression of the claimed chimeric genes. While it is true that bacteria and cyanobacteria are now both classified as procaryotes, that fact alone is not sufficient to motivate the art worker as the PTO con-

kingdom Procaryotae.21 Moreover, it is classified as two separate divisions of the only in recent years that the biology of denced by references in the prior art to cent uncertainty regarding the biology of cyanobacteria tends to rebut, rather than support, the PTO's position that one would consider the cyanobacteria effectively inria and bacteria are not identical; they are cyanobacteria has been clarified, as evi-"blue-green algae." Such evidence of reterchangeable with bacteria as hosts for As the PTO concedes, cyanobacteexpression of the claimed gene.

berg, Miller, and Nierzwicki-Bauer), which quence homology between bacteria and cyanobacteria. The PTO argued that such ordinary skill to attempt the claimed inven-Dzelzkalns, Sekar I, Sekar II, and Ganesan references discussed above, none of these additional references disclose or suggest ferences between cyanobacteria and bacexample, Nierzwicki-Bauer reports that a certain nucleotide sequence (i.e., the -10 consensus sequence) in a particular cyanoquence (the -35 region) does not. While polymerases, it also discloses that these promoters exhibited differing strengths against any independent claim (i.e., Friedit contended disclose certain amino acid sehomology is a further suggestion to one of As with the that cyanobacteria could serve as hosts for expression of genes encoding Bacillus insecticidal proteins. In fact, these additionbacterium resembles an E. coli promoter, Miller speaks of certain promoters of the bacteriophage Lambda that are recognized when exposed to the different polymerases. Differing sensitivities of the respective posuggesting differences in the structures of additional secondary references, not cited al references suggest as much about dif but that another nearby nucleotide seby both cyanobacterial and E. coli RNA lymerases to an inhibitor are also disclosed, At oral argument the PTO referred teria as they do about similarities. the initiation complexes. We disagree.

1982) (definition of "Procaryotae"). Procaryotic organisms are commonly classified according to Stedman's Medical Dictionary 1139 (24th ed. the following taxonomic hierarchy: Kingdom;

conclude that cyanobacteria are attractive hosts for expression of any and all heterofor the capability of undergoing oxygenic bacteria unique among procaryotes). However, these references do not suggest that cyanobacteria would be equally attractive art would lead those of ordinary skill to ogous genes. Again, we can not. The relevant prior art does indicate that cyanoof both native and heterologous genes inphotosynthesis is what makes the cyano-The PTO asks us to agree that the prior oacteria are attractive hosts for expression volved in photosynthesis (not surprisingly, hosts for expression of unrelated heterologous genes, such as the claimed genes encoding Bacillus insecticidal proteins.

producing a "predetermined protein in a stable form" in a transformed bacterial 853 F.2d at 895, 7 U.S.P.Q.2d at art publication (the Polisky reference) at issue was that in Polisky, the heterologous gene was a gene for ribosomal RNA, while the claimed invention substituted a as the appellants therein pointed out, the ribosomal RNA gene is not normally transiminary evidence that the transcript of the ribosomal RNA gene was translated into protein, and further predicted that if a gene coding for a protein were to be substi-In O'Farrell, this court affirmed an obvi-1674. The cited references included a prior three coinventor-appellants. The main difference between the prior art and the claim Id. at 901, 7 U.S.P.Q.2d at 1679. Although, lated into protein, Polisky mentioned preousness rejection of a claim to a method for whose three authors included two of the gene coding for a predetermined protein. cuted, extensive translation might result. ld. We thus affirmed, explaining that host.

stitution that is the difference between gesting that the [claimed] method could the prior art explicitly suggested the suband presented preliminary evidence sugthe claimed invention and the prior art,

Division: Class; Order: Family, Genus; Species. 3 Bergey's Manual of Systematic Bacteriology 1601 (1989).

IN RE VAECK Cite = 947 F.24 488 (Fed. Cir. 1991)

... Polisky contained detailed enabling specification, appellants contend that any invention, a suggestion to modify the tion, and evidence suggesting that it prior art to practice the claimed invenmethodology for practicing the claimed would be successful.

'd. at 901-02, 7 U.S.P.Q.2d at 1679-80.

suggestion, explicit or implicit, of the subclaimed invention and the prior art. Morecess" that was present in O'Farrell is not present here. Accordingly, we reverse the In contrast with the situation in O'Farrell, the prior art in this case offers no stitution that is the difference between the over, the "reasonable expectation of suc-§ 103 rejections.

Enablement

obviousness, is a question of law which we view for clear error. See id. at 735, 8 quires that the specification teach those in out "undue experimentation." In re underlying factual findings which we re-[4] The first paragraph of 35 U.S.C. § 112 requires, inter alia, that the specification of a patent enable any person skilled in the art to which it pertains to make and use the claimed invention. Although the statute does not say so, enablement rethe art to make and use the invention with-Wands, 858 F.2d 731, 737, 8 U.S.P.Q.2d 1400, 1404 (Fed.Cir.1988). That some experimentation may be required is not fatal; the issue is whether the amount of experimentation required is "undue." Id. at 736-37, 8 U.S.P.Q.2d at 1404. Enablement, like independently review, although based upon U.S.P.Q.2d at 1402.

to claims of broad scope. Narrower claims would provide no real protection, appellants argue, because the level of skill in this art is so high, art workers could easily avoid [5] In response to the § 112 rejection, appellants assert that their invention is "pioneering," and that this should entitle them the claims. Given the disclosure in their

based upon a post-filing date state of the art, as in *In re Hogan*, 559 F.2d 595, 605-07, 194 U.S.P.O. SZT, S35-38 (CCPA 1977). See also United States Steel Corp. v. Phillips Petroleum Co., 865 F.2d 1247, 1251, 9 U.S.P.O.2d 1461, 1464 (Fed.Cir.1989) (citing Hogan); Hormone The enablement rejection in this case was not

Bacillus DNA, and could easily determine whether or not the active Bacillus protein bacteria, using a variety of promoters and skilled microbiologist could construct vecwas successfully expressed by the cyanotors and transform many different cyanobacteria.

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bacteria is "unpredictable." Appellants and we need not address the issue here. With the exception of claims 47 and 48, the claims rejected under § 112 are not limited to any particular genus or species of cyanobacteria. The PTO's position is that the cyanobacteria are a diverse and relatively prising some 150 different genera, and that heterologous gene expression in cyanotions. Moreover, we note that only one particular species of cyanobacteria is emlants' specification, and only nine genera of cyanobacteria are mentioned in the entire The PTO made no finding on whether the poorly studied group of organisms, comhave not effectively disputed these asserployed in the working examples of appelclaimed invention is indeed "pioneering, document.

nobacteria as of appellants' filing date, as well as the limited disclosure by appellants 839, 166 U.S.P.Q. 18, 24 (CCPA 1970) (the first paragraph of § 112 requires that the paragraph. There is no reasonable correlapellants' specification and the broad scope scope of the claims must bear a reasonable correlation to the scope of enablement proplete understanding of the biology of cyaof particular cyanobacterial genera operative in the claimed invention, we are not persuaded that the PTO erred in rejecting claims 1-46 and 50-51 under § 112, first tion between the narrow disclosure in apof protection sought in the claims encompassing gene expression in any and all cyavided by the specification).22 Accordingly, Taking into account the relatively incomnobacteria. See In re Fisher, 427 F.2d 833,

Research Found., Inc. v. Genentech. Inc., 904 F.2d 1558, 1568-69, 15 U.S.P.Q.2d 1039, 1047-48 (Fed.Cir.1990) (directing district court, on remand, to consider effect of Hogan and United States Steel on the enablement analysis of Fisher), cert. dismissed, — U.S. —, 111 S.Ct. 1434, 113 L.Ed.2d 485 (1991). We therefore do not we affirm the § 112 rejection as to those

[6] In so doing we do not imply that patent applicants in art areas currently denominated as "unpredictable" must never be allowed generic claims encompassing

more than the particular species disclosed in their specification. It is well settled that patent applicants are not required to disclose every species encompassed by their claims, even in an unpredictable art. In re Angstadt, 537 F.2d 498, 502-03, 190 U.S.P.Q. 214, 218 (CCPA 1976). However, there must be sufficient disclosure, either through illustrative examples or terminology,23 to teach those of ordinary skill how to make and how to use the invention as the disclosure must adequately guide the art worker to determine, without undue those encompassed by the claimed genus possess the disclosed utility. Where, as broadly as it is claimed. This means that experimentation, which species among all here, a claimed genus represents a diverse and relatively poorly understood group of the disclosure of an invention involving a "predictable" factor such as a mechanical agree with the PTO that appellants' limited microorganisms, the required level of disclosure will be greater than, for example, or electrical element. See Fisher, 427 F.2d at 839, 166 U.S.P.Q. at 24. In this case, we disclosure does not enable one of ordinary skill to make and use the invention as now

Remaining dependent claim 47 recites a eric gene of claim 1, wherein the cyanobacterium is selected from among the genera which depends from claim 47, is limited to The PTO did not separately address these claims, nor indicate why they should be treated in the same manner as the claims cyanobacterium which expresses the chim-Anacystis and Synechocystis. Claim 48, the cyanobacterium Synechocystis 6803. sucompassing all types of cyanobacteria.

Fisher's analysis of when an inventor should be allowed to "dominate the future patentable inventions of others." Fisher, 427 F.2d at 839, 166 consider the effect of Hogan and its progeny on U.S.P.O. at 24.

Although these claims are not limited to Bacillus proteins, we note what appears to be an extensive understanding in the prior art of the numerous Bacillus proteins having toxicity to various insects. The rejecexpression of genes encoding particular tion of claims 47-48 under § 112 will not be sustained.

CONCLUSION

The rejection of claims 1-48 and 50-52 under 35 U.S.C. § 103 is reversed. The rejection of claims 1-46 and 50-51 under 35 U.S.C. § 112, first paragraph, is affirmed and the rejection of claims 47 and 48 thereunder is reversed.

AFFIRMED-IN-PART, REVERSED-IN-PART.

MAYER, Circuit Judge, dissenting.

An appeal is not a second opportunity to take to retry the entire case on appeal." Perini America, Inc. v. Paper Converting Machine Co., 832 F.2d 581, 584, 4 try a case or prosecute a patent application, and we should not allow parties to "under-U.S.P.Q.2d 1621, 1624 (Fed.Cir.1987); Eaton Corp. v. Appliance Valves Corp., 790 Cir.1986). But that is precisely what the court has permitted here. The PTO conart surrounding this patent application and concluded the claims would have been obvi-F.2d 874, 877, 229 U.S.P.Q. 668, 671 (Fed. ducted a thorough examination of the prior ous. The board's decision based on the explains the rejection is persuasive and shows how the evidence supports the legal conclusion that the claims would have been obvious. Yet, the court ignores all this and as though the examiner and board did not exist. Even if I thought this opinion were more persuasive than the board's, I could examiner's answer which comprehensively conducts its own examination, if you will, recited in claims 1-46 and 50-51 without

undue experimentation.

more than objective enablement. In re Marzoc-chi, 439 F.2d 220, 223, 169 U.S.P.O. 367, 369 (CPA 1971). How such a teaching is set forth, either by the use of illustrative examples or by broad terminology, is irrelevant. Id. 23. The first paragraph of § 112 requires nothing

not join it because it misperceives the role Access to Justice Act (EAJA) after settle-LEVERNIER CONST., INC. v. U.S. Cite us 947 F.2d 497 (Fed. Cir. 1991)

does not give the court license to decide the clearly erroneous. In re Woodruff, 919 Cir.1990). There may be more than one record we are bound by the PTO's interpreclearly erroneous and its conclusion is the similarity between the prior art and the tions of fact. Graham v. John Deere Co., 383 U.S. 1, 17, 86 S.Ct. 684, 693-94, 15 Jurgens v. McKasy, 927 F.2d 1552, 1560, 18 "[w]here there are two permissible views of the evidence, the factfinder's choice be-Anderson v. City of Bessemer City, 470 L.Ed.2d 518 (1985). The mere denomquirement that they be respected unless F.2d 1575, 1577, 16 U.S.P.Q.2d 1934, 1935 (Fed.Cir.1990); In re Kulling, 897 F.2d way to look at the prior art, but on this tation of the evidence because it is not unassailable. I would affirm on that basis. and what the prior art teaches are all ques-U.S.P.Q.2d 1031, 1037 (Fed.Cir.1991). And U.S. 564, 574, 105 S.Ct. 1504, 1511-12, 84 ination of obviousness as a question of law factual matters afresh and ignore the re-1147, 1149, 14 U.S.P.Q.2d 1056, 1057 (Fed. claims, the level of ordinary skill in the art, The scope and content of the prior art, L.Ed.2d 545, 148 U.S.P.Q. 459, 467 (1966); tween them cannot be clearly erroneous.'



LEVERNIER CONSTRUCTION, INC., Plaintiff-Appellee, The UNITED STATES, Defendant-No. 91-5058. Appellant.

United States Court of Appeals, Federal Circuit.

Oct. 22, 1991.

ney fees and expenses under the Equal Construction contractor sought attor-

living adjustment (COLA) to paralegal fees error to apply 18% (COLA) to hourly rates of attorneys whose time was claimed at \$75 original hearing, the Claims Court, Reginald W. Gibson, J., 21 Cl.Ct. 683, granted Claims Court, 22 Cl.Ct. 247, granted the motion, and held that contractor was entisenting consultant fees and expenses. Government appealed. The Court of Appeals, Bennett, Senior Circuit Judge, held ment claim before contracting officer was not a "civil action" within meaning of the EAJA, and thus contractor was not entitled Claims Court erred in applying 18% cost of awarded under the EAJA; and (3) it was ment of equitable adjustment claim. On application in part and denied it in part. tled to recover additional amount reprethat: (1) prosecution of equitable adjustto recover consultant fees incurred in preparation of equitable adjustment claim; (2) Contractor sought reconsideration.

Reversed.

1. United States \$\mathbb{C}147(12)\$

Access to Justice Act (EAJA), and thus Prosecution of equitable adjustment "civil action" within meaning of the Equal contractor was not entitled to recover fees incurred by contract claim consultant for claim before contracting officer was not preparation of equitable adjustment claim. 28 U.S.C.A. § 2412.

See publication Words and Phrases for other judicial constructions and definitions.

2. United States \$\infty\$147(5)

Equal Access to Justice Act (EAJA) is a waiver of sovereign immunity which must be strictly construed. 28 U.S.C.A.

3. United States \$\infty\$147(4)

governing rate of attorney fees upward to In formulating an award of attorney fees under the Equal Access to Justice Act (EAJA), court may adjust statutory cap account for an increase in cost of living. 28 U.S.C.A. § 2412(d)(2)(A)(ii).